

INSTALLATION RESTORATION PROGRAM

FINAL

SITE INVESTIGATION REPORT VOLUME II APPENDICES A-K

182 Airlift Wing
Illinois Air National Guard, Greater Peoria Airport
Peoria, Illinois

June 1996

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HAZARDOUS WASTE REMEDIAL ACTIONS PROGRAM
Environmental Restoration and Waste Management Programs
Oak Ridge, Tennessee 37831-7606
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13. ABSTRACT (Maximum 200 words) Site Investigation Report, Illinois Air National Guard, 182nd Airlift Wing, Greater Peoria Regional Airport, Peoria, Illinois, Volume II - Appendices A-K. This is the second volume of a two volume Site Investigation Report. Three sites (Site 1 - Septic System Filter Beds, Site 2 - Grassy Area Along Facility Boundary East of the Aircraft Apron, and Site 3 - Grass Area West of Aircraft Apron and East of Fuel Truck Parking) were investigated under the Installation Restoration Program. Soil and groundwater samples were collected and analyzed. A Remedial Investigation was recommended for the soils at Site 1. No further action was recommended for Site 2 and the soils at Site 3. A groundwater investigation was recommended to identify the source of low concentrations of VOCs in the groundwater.				
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FINAL

INSTALLATION RESTORATION PROGRAM
SITE INVESTIGATION REPORT
VOLUME II APPENDICES A-K

182 AIRLIFT WING
ILLINOIS AIR NATIONAL GUARD, GREATER PEORIA AIRPORT
PEORIA, ILLINOIS

Submitted to:

AIR NATIONAL GUARD READINESS CENTER
ANDREWS AFB, MARYLAND

Submitted by:

HAZARDOUS WASTE REMEDIAL ACTIONS PROGRAM
LOCKHEED MARTIN ENERGY SYSTEMS, INC.
Oak Ridge, Tennessee 37831

for the:

U.S. DEPARTMENT OF ENERGY

Prepared by:

THE EARTH TECHNOLOGY CORPORATION
Oak Ridge, Tennessee 37830

JUNE 1996

TABLE OF CONTENTS

SITE INVESTIGATION REPORT - APPENDICES A - K

182 AIRLIFT WING ILLINOIS AIR NATIONAL GUARD, GREATER PEORIA AIRPORT PEORIA, ILLINOIS

<u>Section</u>	<u>Page</u>
Appendix A: Water Well Survey Data	A-1
Appendix B: Field Change Request Forms	B-1
Appendix C: Groundwater Elevation Measurements and Aquifer Test Data . .	C-1
Appendix D: Boring Logs and Well Construction Forms	D-1
Appendix E: Soil Gas, Groundwater, and Soil Screening Results	E-1
Appendix F: On-site Field GC Soil Analytical Results	F-1
Appendix G: Quality Assurance/Quality Control Analyses	G-1
Appendix H: Laboratory Data Validation Summaries and Data	H-1
Appendix I: Groundwater Development, Soil, and Groundwater Sampling Forms	I-1
Appendix J: Survey Data	J-1
Appendix K: Investigation Derived Waste: Analytical Results	K-1

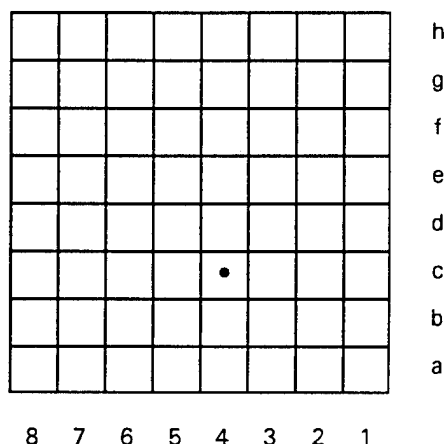
Appendix A: Water Well Survey Data

10-ACRE PLOT LOCATION SYSTEM

The following is an example of the Well Database location system.

The location system uses Township, Range, and Section. The location consists of five parts: County abbreviation, Township, Range, Section, and coordinate within the section (subsection or 10-acre plot). Sections are divided into rows or 1/8-mile squares. Each 1/8-mile square contains 10 acres and corresponds to a quarter of a quarter of a quarter section. A normal section of 1 square mile contains 8 rows or 1/8-mile squares; an odd-sized section contains more or fewer rows. Rows are numbered from east to west and lettered from south to north as shown in the diagram.

Example: St. Clair County, FIP No. 163
 T2N, R10W
 Section 23



The location of the well is shown above is 163 2N10W-23.4c. The well point is located at the center of the 10-acre plot.

**Illinois State Water Survey
Private Well Database Explanation**

TWN	Township
RNG	Range
SC	Section
PL	Plot Location
OWNER	Well Owner
DRILLER	Well Drilling Contractor OS Well
DATE	Date Initially Drilled
DEPTH	Depth (Well to nearest ft)
REC	Record Type (Types of Information on File)
A	Affidavit
C	Chemical Analysis
D	Drillers Log
G	Geological Information
I	Inventory
O	Any Other Type Record
X	Indicates Comment in Owners Field (Something Unusual)
R	Construction Report
US	Well Use - A Two Letter Code Indicating the Usage of the Well
CM	Commercial
CO	Conservation
DO	Domestic
IC	Industrial/Commercial
IN	Industrial
IR	Irrigation
MO	Monitoring
MU	Municipal
NC	Non-Community
OB	Observation
PK	Park
SC	School
ST	State
TY	Well type - (A Two Letter Code Indicating the Type of Well)
Blank	Assumed Drilled
BO	Bored and Dug
DU	Dug (Being Phased Out)
DR	Driven
SP	Sand Point
SG	Spring

AQ Aquifer Type (A Two Letter Code Indicating Aquifer Type)
 BR Bedrock
 UN Unconsolidated

NA Information not available from Illinois State Water Survey

The data in the private well inventory database are a listing of the non-municipal wells which are known to the Illinois State Water Survey (ISWS). This information has been entered verbatim from well logs submitted by the driller, from chemical analysis reports, from well sealing forms, or well inventory forms from the 1930-34 well survey and other special projects. The accuracy of this data is controlled by those who submitted the form. Information in the private well database has not been verified.

**Table A-1 Commercial and Industrial Well
Around Greater Peoria Airport**

TOWNSHIP	RANGE	SECTION	PLOT LOCATION	SECTION LOCATION NO.	WELL OWNER	DRILLER	DATE	DEPTH	REC	USE	TY	AQ
08N	08E	30	7G	1	Keystone Steel & Wire Co	Hofstetter	00/00/1975	100	D	IC		NA
08N	08E	07	5A	1	ILL American Water Co-Peoria	Layne- Western Co.	1953	162	D	IC		NA
08N	08E	07	5A	2	ILL American Water Co-Peoria	Kelly Well Co.	1949	167	D	IC		NA
08N	07E	09	NA	1	Borland Dairy (Dry Hole)	Hofstetter	03/00/1940	290	XOG	IN		BR
08N	07E	09	NA	2	Borland Dairy (Dry Hole)	Hofstetter	03/00/1940	290	RGX	IN		BR
08N	07E	09	8H	3	Borland Dairy	NA	00/00/1936	190	C	IN		NA
08N	07E	13	7H	4	Meister Bros Heating & Air Coh	Hofstetter	09/15/1971	74	XRG	IN		NA
08N	07E	25	NA	1	Acme Harvester Co.	NA	00/00/0000	377	RG	IN		NA
08N	07E	25	NA	2	Acme Harvester Co.	NA	00/00/0000	390	0	IN		NA
08N	07E	25	NA	3	Acme Harvester Co.	NA	00/00/0000	390	0	IN		NA
08N	07E	25	3C	4	Keystone Steel & Wire Co.	NA	00/00/1933	390	C	IN		NA
08N	08E	18	NA	5	KEW Laundry/Lorch Laundry	NA	00/00/1941	117	OC	IN		NA
08N	08E	18	1A	6	Tim Presley Worm Ranch	J&R	04/27/1980	95	RG	IN		UN
08N	08E	19	NA	1	P&P VRR	NA	00/00/1914	53	0	IN		UN
08N	08E	19	NA	2	Barrett Co	Thorpe	00/00/1929	96	0	IN		NA
08N	08E	19	NA	3	Hiram Walker & Sons Plant 2	M Ebert Co.	00/00/1933	86	0	IN		UN
08N	08E	19	NA	4	Stahl-Meyer Inc	M Ebert Co.	00/00/1937	68	0	IN		NA
08N	08E	19	NA	5	Hiram Walker & Sons Plant 2	Schilling	00/00/1938	69	0	IN		UN

**Table A-1 (Continued) Commercial and Industrial Well
Around Greater Peoria Airport**

TOWNSHIP	RANGE	SECTION	PLOT LOCATION	SECTION LOCATION NO.	WELL OWNER	DRILLER	DATE	DEPTH	REC	USE	TY	AQ
08N	08E	19	NA	6	Commercial Solvents #8	Layne- Western	00/00/1940	70	0	IN		UN
08N	08E	19	NA	7	Commercial Solvents Corp. #8	Layne- Western	00/00/1940	75	0	IN		NA
08N	08E	19	NA	8	Dads Root Beer Bottling Co	Hofstetter	00/00/1941	130	0	IN		NA
08N	08E	19	NA	9	Stahl-Meyer Inc.	M Ebert Co.	00/00/1942	70	0	IN		NA
08N	08E	19	NA	10	Hiram Walker & Sons Plant 2	Ranney	00/00/1943	119	OG	IN		UN
08N	08E	19	NA	11	Hiram Walker & Sons Plant 2	M Ebert Co	00/00/1945	95	OG	IN		UN
08N	08E	19	NA	12	Commercial Solvents TW 35	Layne- Western	00/00/1945	123	0	IN		NA
08N	08E	19	NA	13	Commercial Solvents #9	Layne- Western	00/00/1945	123	0	IN		NA
08N	08E	19	NA	14	Hiram Walker & Sons Plant 2	M Ebert Co	12/00/1941	103	0	IN		UN
08N	08E	19	1F	15	Commercial Solvents Co #6	Layne- Western	06/00/1935	79	OGC	IN		NA
08N	08E	19	1G	16	Century Distillery #1	Schilling	00/00/1933	60	OGC	IN		UN
08N	08E	19	1G	17	Century Distillery #2	Schilling	00/00/1933	60	OGC	IN		UN
08N	08E	19	1G	18	Century Distillery #3	Schilling	00/00/1933	60	OGC	IN		UN
08N	08E	19	2B	19	Peoria Lock & Dam TH 12	US Army Engrs	00/00/1936	20	RG	IN		UN
08N	08E	19	2D	20	Commercial Solvents Corp TH 41	Layne- Western	00/00/1945	123	RG	IN		NA

**Table A-1 (Continued) Commercial and Industrial Well
Around Greater Peoria Airport**

TOWNSHIP	RANGE	SECTION	PLOT LOCATION	SECTION LOCATION NO.	WELL OWNER	DRILLER	DATE	DEPTH	REC	USE	TY	AQ
08N	08E	19	2F	21	Commercial Solvents Corp #9	Layne- Western	00/00/1946	123	RGC	IN		NA
08N	08E	19	2H	22	Dad's Root Beer Bottling Co	Hofstetter	00/00/1941	130	OGC	IN		NA
08N	08E	19	3A	23	Peoria Lock & Dam TH 10	US Army Engrs	00/00/1936	24	RG	IN		NA
08N	08E	19	3B	24	Toledo Peoria & Western RR	NA	00/00/1937	99	C	IN		NA
08N	08E	19	3D	25	Barrett Division of Allied	Thorpe Concrete	00/00/1929	96	O	IN		UN
08N	08E	19	3D	26	Barrett Mfg Co	NA	00/00/1929	92	OC	IN		UN
08N	08E	19	3D	27	Barrett Div of Allied	Kelly Well	00/00/1937	103	OG	IN		UN
08N	08E	19	3D	28	Barrett Div of Allied	Kelly Well	00/00/1941	105	OGL	IN		UN
08N	08E	19	3D	29	Barrett Div of Allied	Kelly Well	00/00/1953	118	OI	IN		UN
08N	08E	19	3E	30	Commercial Solvents Corp Th 38	Layne- Western	00/00/1945	124	RG	IN		NA
08N	08E	19	3E	31	Commercial Solvents Corp Th 39	Layne- Western	00/00/1945	128	RG	IN		NA
08N	08E	19	3E	32	Commercial Solvents Corp Th 40	Layne- Western	00/00/1945	120	RG	IN		NA
08N	08E	19	3F	33	Commercial Solvents Corp Th 37	Layne- Western	00/00/1945	120	RG	IN		NA
08N	08E	19	4D	34	Pennsylvania-Maryland & Ind AI	NA	00/00/1933	61	O	IN		NA
08N	08E	19	4D	35	Pennsylvania-Maryland & Ind AI	NA	00/00/1933	63	O	IN		NA

Table A-1 (Continued) Commercial and Industrial Well
Around Greater Peoria Airport

TOWNSHIP	RANGE	SECTION	PLOT LOCATION	SECTION LOCATION NO.	WELL OWNER	DRILLER	DATE	DEPTH	REC	USE	TY	AQ
08N	08E	19	4D	36	Pennsylvania-Maryland & Ind AI	NA	00/00/1933	62	OC	IN		NA
08N	08E	19	4D	37	Pennsylvania-Maryland & Ind AI	NA	00/00/1933	64	O	IN		NA
08N	08E	19	4D	38	Pennsylvania-Maryland & Ind AI	NA	00/00/1933	57	OC	IN		NA
08N	08E	19	4D	39	Pennsylvania-Maryland & Ind AI	NA	00/00/1933	56	OC	IN		NA
08N	08E	19	4D	40	Pennsylvania-Maryland & Ind AI	NA	00/00/1933	53	OC	IN		NA
08N	08E	19	4D	41	Pennsylvania-Maryland & Ind AI	NA	00/00/1933	69	O	IN		NA
08N	08E	19	4D	42	Pennsylvania-Maryland & Ind AI Aurora Pump Co	NA	08/00/1933	90	O	IN		UN
08N	08E	19	4D	43	Pennsylvania-Maryland & Ind AI Aurora Pump Co	NA	08/00/1933	87	O	IN		UN
08N	08E	19	4E	44	US Industrial Alcohol Co	NA	00/00/1933	55	OC	IN		NA
08N	08E	19	5D	45	Peoria Creamery Co	NA	00/00/1933	72	OGCA	IN		UN
08N	08E	19	8C	46	A Miller and Co	Chris Ebert Co	09/23/1969	73	RG	IN		UN
08N	08E	30	5F	2	Keystone Steel and Wire Co TW5	NA	1 / /	117	OG	IN		NA
08N	08E	30	6D	3	Peoria Lock & Dam TH 11	US Army Engrs	00/00/1936	30	RG	IN		NA
08N	08E	30	7F	4	Keystone Steel & Wire Co	Schilling	00/00/1926	97	OGC	IN		NA

Table A-1 (Continued) Commercial and Industrial Well
Around Greater Peoria Airport

TOWNSHIP	RANGE	SECTION	PLOT LOCATION	SECTION LOCATION NO.	WELL OWNER	DRILLER	DATE	DEPTH	REC	USE	TY	AQ
08N	08E	30	8F	5	Keystone Steel & Wire Co. TW4	NA	1 / /	82	OG	IN		NA
08N	08E	30	8H	6	Luria Bros/Jack McGinn	WM Ebert	11/02/1978	98	RG	IN		NA
08N	08E	31	7G	1	Keystone Steel & Wire Co #1	M Ebert Co	1 / /	166	O	IN		NA
08N	08E	31	7G	2	Keystone Steel & Wire Co	M Ebert Co	1 / /	178	O	IN		NA
08N	07E	36	7G	4	Keystone Steel & Wire Co	NA	00/00/1916	40	RGC	IN		NA
08N	07E	36	NA	5	Toledo Peoria & Western RR TW	Bollinger	06/00/1941	24	ORG	IN		NA
08N	07E	36	4E	6	Allied Mills	Durham	00/00/1941	800	OC	IN		BR
08N	07E	25	8A	7	Peoria State Hospital TW#1	NA	00/00/0000	97	C	IC	DR	NA
08N	07E	25	8A	8	Peoria State Hospital TW#3	NA	00/00/0000	80	C	IC	DR	NA
08N	07E	26	NA	1	Peoria State Hospital	NA	00/00/1913	22	OG	TW	BD	UN
08N	08E	19	NA	47	Commercial Solvent	NA	00/00/0000	66	O	IC	--	NA
08N	08E	19	NA	48	Commercial Solvent Co	NA	00/00/0000	72	O	IC	--	NA
08N	08E	19	NA	49	Commercial Solvent Co	NA	00/00/1931	94	O	IC	--	NA
08N	08E	19	NA	50	Hiram Walker & Sons Inc. #2	Ebert	00/00/1933	90	O	IC	--	NA
08N	08E	19	NA	51	Commercial Solvents Corp #7	Layne Western	00/00/1934	94	O	IC	--	NA
08N	08E	19	NA	52	Hiram Walker & Sons Inc. #1	Ebert	00/00/1941	105	O	IC	--	NA
08N	08E	19	NA	53	Hiram Walker & Sons Inc. #4	Ebert	00/00/1945	95	O	IC	--	UN

Table A-1 (Continued) Commercial and Industrial Well
Around Greater Peoria Airport

TOWNSHIP	RANGE	SECTION	PLOT LOCATION	SECTION LOCATION NO.	WELL OWNER	DRILLER	DATE	DEPTH	REC	USE	TY	AQ
08N	08E	19	NA	54	Commercial Solvents Corp #7	Layne Western	00/00/1994	94	O	IC	--	NA
08N	07E	35	NA	3	Allied Mills Inc.	NA	00/00/0000	NA	O	IC	--	NA
08N	07E	35	NA	4	Allied Mills Inc.	NA	00/00/0000	NA	O	IC	--	NA
08N	07E	26	1A	2	Peoria State Hospital #3	J P Miller	00/00/1993	1865	RGC	CM		NA
08N	08E	06	8A	1	State Water Survey TW 8	M Ebert Co	10/00/1941	162	OGI	CM		UN
08N	08E	07	8B	3	State Water Survey TW 7	Hofstetter	00/00/1941	107	RGI	CM		UN
08N	08E	07	8B	4	State Water Survey TW 15	M Ebert Co	04/23/1942	107	OG	CM		UN
08N	08E	07	8B	5	State Water Survey TW 16	M Ebert Co	04/25/1942	108	OG	CM		UN
08N	08E	08	NA	1	Schulze Baking Co	M Ebert Co	00/00/0000	138	O	CM		NA
08N	08E	07	5A	6	Peoria Water Works (TW)	M Ebert Co	00/00/1947	165	XOGC	MU		UN
08N	08E	08	NA	NA	Schulze Baking Co	M Ebert Co	00/00/0000	138	O	CM		NA
08N	07E	27	3D	3	Peoria Police Benevolent Assn	Sauder	08/27/1982	73	RG	CM		NA
08N	07E	29	1A	1	Limestone Town Firehouse	Hampton	04/30/1971	39	RG	CM		UN
08N	07E	29	7F	2	McGinnis Animal Hospital	M Ebert	00/00/1937	NA	RG	CM		NA

**Table A-2 Domestic Wells
Around Greater Peoria Airport**

TOWNSHIP	RANGE	SECTION	PLOT LOCATION	SECTION LOCATION NO	WELL OWNER	DRILLER	DATE	DEPTH	REC	USE	TY	AQ
08N	07E	08	4A	1	Lawrence Detborn	Scherf	04/11/1986	34	RG	DO		UN
08N	07E	08	5A	2	Raymond Sewell	Kuntz	00/00/1962	30	RG	DO		BR
08N	07E	08	5D	3	Robert Cuppy	Scherf	08/21/1980	54	RG	DO		NA
08N	07E	08	5E	4	Charles Milliman	Sauder	10/04/1978	52	RG	DO		BR
08N	07E	08	5E	5	Charles E. Bitner	Sauder	11/14/1978	26	RG	DO		NA
08N	07E	08	5E	6	Robert Guppy	Scherf	11/25/1987	55	RG	DO		NA
08N	07E	08	5F	7	Charles Bitner	Sauder	07/24/1978	24	RG	DO		UN
08N	07E	08	6F	8	Paul N. Lakert	Barker	00/00/1981	36	RG	DO		NA
08N	07E	08	6F	9	Charles Bitner	Hampton	12/22/1975	50	RG	DO		NA
08N	07E	08	6F	10	Charles Milliman	Hampton	12/26/1975	50	RG	DO		UN
08N	07E	08	7G	11	Nick Owens	Knierim	04/19/1977	150	RG	DO		BR
08N	07E	08	7G	12	James Vallance	Scherf	07/12/1982	37	RG	DO		BR
08N	07E	08	7G	13	Nick Owens	Dietzman	09/20/1979	210	RG	DO		BR
08N	07E	08	7H	14	Nicholas R. Owens	Barker	01/29/1980	40	RG	DO		NA
08N	07E	09	NA	4	Geo P. Zem	NA	00/00/1914	28	0	DO		NA
08N	07E	09	3F	5	Peoria County Home	NA	00/00/1946	1750	OC	DO		NA
08N	07E	10	NA	1	Almeda Innes	White	06/19/1990	27	A	DO	BD	NA
08N	07E	11	NA	1	Allen Ayres	NA	00/00/0000	78	RG	DO		NA
08N	07E	11	NA	2	Allen Ayres	NA	00/00/0000	78	0	DO		NA
08N	07E	11	NA	3	Orville Howard (Dry Hole)	Hofstetter	05/00/1940	86	XOG	DO		NA

**Table A-2 (Continued) Domestic Wells
Around Greater Peoria Airport**

TOWNSHIP	RANGE	SECTION	PLOT LOCATION	SECTION LOCATION NO	WELL OWNER	DRILLER	DATE	DEPTH	REC	USE	TY	AQ
O8N	07E	11	5D	4	H.B. Austin	Hofstetter	06/00/1949	124	OGC	DO		BR
O8N	07E	11	6B	5	Harold Holzschuh	Hofstetter	05/00/1940	165	OG	DO		BR
O8N	07E	11	7B	6	Allen Ayres	Hofstetter	04/00/1940	78	OGC	DO		NA
O8N	07E	12	NA	1	Charles Hausman (Dry Hole)	Naut	00/00/1947	156	XRG	DO		NA
O8N	07E	13	NA	1	Krempe/Grogan	NA	00/00/0000	125	RG	DO		NA
O8N	07E	13	NA	2	Krempe	NA	00/00/0000	125	O	DO		NA
O8N	07E	13	6B	3	(Spring)	NA	00/00/1944	NA	C	NA		NA
O8N	07E	14	NA	1	FT Menke	Hofstetter	04/00/1940	40	RG	DO		BR
O8N	07E	15	NA	1	Walter Fisher #2	White	01/14/1992	38	RG	DO	BD	UN
O8N	07E	17	5F	1	Leland Bontz	Sauder	11/10/1978	74	RG	DO		NA
O8N	07E	17	6A	2	Robert Badgeron	Hampton	00/00/1968	39	RG	DO		NA
O8N	07E	17	7B	3	Carlos E. Patton	Hampton	08/00/1968	38	RG	DO		UN
O8N	07E	20	2G	1	Robert Ross	Hampton	09/00/1968	35	RG	DO		UN
O8N	07E	20	3C	2	Habard Doty	Ebert, Wm	00/00/1962	80	RG	DO		BR
O8N	07E	20	4B	3	John Cauchey	Scherf	05/02/1970	31	RG	DO		UN
O8N	07E	20	4E	4	John Schwerer	Scherf	06/13/1979	37	RG	DO		UN
O8N	07E	20	5A	5	Charles Lawson	Scherf	07/15/1978	30	RG	DO		UN
O8N	07E	20	5C	6	Henry Strube	Sauder	04/18/1977	38	RG	DO		NA
O8N	07E	20	5E	7	George Tegard Jr.	Sauder	06/10/1983	52	RG	DO		BR

**Table A-2 (Continued) Domestic Wells
Around Greater Peoria Airport**

TOWNSHIP	RANGE	SECTION	PLOT LOCATION	SECTION LOCATION NO	WELL OWNER	DRILLER	DATE	DEPTH	REC	USE	TY	AQ
08N	07E	20	7B	8	Mrs. Henry Johnson	Sauder	11/14/1980	64	RG	DO		BR
08N	07E	21	1B	1	William Behrends	Scherf	06/25/1971	37	RG	DO		UN
08N	07E	21	2A	2	Henry Behrends	Scherf	09/22/1978	59	RG	DO		NA
08N	07E	21	4B	3	Jerry Behrends	Scherf	04/02/1974	49	RG	DO		NA
08N	07E	21	4C	4	Harold Johnson	Mitchell	08/20/1971	60	RG	DO		UN
08N	07E	21	5B	5	Paul Finley	Cosby	06/27/1979	72	RG	DO		NA
08N	07E	21	7C	6	Oak Grove Baptist Church	Sauder	09/30/1982	80	RG	DO		NA
08N	07E	21	7D	7	John Waters	Shaver	08/95/1978	50	RG	DO		NA
08N	07E	21	8C	8	Dave Scherer	Sauder	05/03/1987	55	RG	DO		BR
08N	07E	24	4B	1	J R Sears	Hampton	09/00/1968	30	RG	DO		UN
08N	07E	24	7C	2	James A. Kendall	Hampton	08/04/1969	34	RG	DO		UN
08N	07E	27	7A	1	Roger Batten	Scherf	10/14/1978	47	RG	DO		NA
08N	07E	27	7A	2	Jack Barton	Scherf	10/15/1978	63	RG	DO		NA
08N	07E	28	NA	1	John Bassett	Scherf	11/16/1987	46	RG	DO		NA
08N	07E	28	1A	2	Leo Kauffman	Sauder	05/28/1980	94	RG	DO		NA
08N	07E	28	1A	3	Leo Kauffman	Scherf	06/15/1978	62	RG	DO		UN
08N	07E	28	4A	4	James Paris	Sauder	10/16/1980	75	RG	DO		BR
08N	07E	28	4G	5	Ted McSimov	Sauder	05/14/1987	52	RG	DO		NA
08N	07E	28	5C	6	Gary Johnson	Sauder	09/08/1978	47	RG	DO		NA

**Table A-2 (Continued) Domestic Wells
Around Greater Peoria Airport**

TOWNSHIP	RANGE	SECTION	PLOT LOCATION	SECTION LOCATION NO	WELL OWNER	DRILLER	DATE	DEPTH	REC	USE	TY	AQ
08N	07E	28	5D	7	Steve Elger	Sauder	08/04/1980	80	RG	DO		BR
08N	07E	28	5D	8	David Howell	Sauder	12/06/1979	66	RG	DO		NA
08N	07E	28	5G	9	Glen Heurmann	Sauder	10/14/1976	43	RG	DO		NA
08N	07E	28	5G	10	Michael Reed	Sauder	10/19/1976	40	RG	DO		NA
08N	07E	28	5H	11	David Durham	Sauder	03/09/1977	30	RG	DO		NA
08N	07E	28	5H	12	Charles Melton	Sauder	09/03/1981	69	RG	DO		BR
08N	07E	28	6A	13	Steve Gibson	Sauder	03/04/1983	73	RG	DO		NA
08N	07E	28	6A	14	Terry Weills	Sauder	08/28/1981	69	RG	DO		NA
08N	07E	28	6B	15	Steve Nelson	Sauder	06/09/1981	75	RG	DO		NA
08N	07E	28	6B	16	Terry Bealmer	Sauder	09/14/1979	50	RG	DO		NA
08N	07E	28	6B	17	David Schaub	Scherf	10/15/1979	53	RG	DO		NA
08N	07E	28	6C	18	Robert Showalter	Scherf	06/12/1979	47	RG	DO		UN
08N	07E	28	6C	19	Steven Elger	Scherf	06/28/1978	40	RG	DO		NA
08N	07E	28	6C	20	James Graves	Shaver	08/17/1978	59	RG	DO		NA
08N	07E	28	6C	21	Herbert Schulz	Sauder	09/13/1979	61	RG	DO		NA
08N	07E	28	7A	22	Brad Taylor	Scherf	07/06/1973	30	RG	DO		UN
08N	07E	28	7F	23	Larry Abercrombi	Scherf	05/07/1977	55	RG	DO		NA
08N	08E	19	NA	58	J W Parker	Hofstetter	00/00/1941	131	OG	DO		UN
08N	07E	32	1H	1	Lewis Marinich	Sauder	08/08/1978	54	RG	DO		NA

**Table A-2 (Continued) Domestic Wells
Around Greater Peoria Airport**

TOWNSHIP	RANGE	SECTION	PLOT LOCATION	SECTION LOCATION NO	WELL OWNER	DRILLER	DATE	DEPTH	REC	USE	TY	AQ
08N	07E	32	4H	2	Charles Logsdon	Scherf	04/14/1973	44	RG	DO		UN
08N	07E	33	NA	1	Randall Divan	Cosby	09/15/1979	44	RG	DO		NA
08N	07E	33	1D	2	John K. Bitner	Kuntz	11/30/1978	58	RG	DO		BR
08N	07E	33	2A	3	Ralph E Sutherland	Hampton	08/05/1969	40	RG	DO		NA
08N	07E	33	3H	4	Virgil Beckman	Hampton	04/29/1971	51	RG	DO		NA
08N	07E	33	4B	5	Alvin E Dill	Hampton	09/09/1969	47	RG	DO		NA
08N	07E	33	4C	6	Ledbetter Bros	Hampton	05/23/1975	44	RG	DO		NA
08N	07E	33	4D	7	Delbert Stone	Scherf	08/10/1977	58	RG	DO		UN
08N	07E	33	5H	8	Howard Dalton	Sauder	08/07/1980	69	RG	DO		NA
08N	07E	33	6A	9	Chuck Lawder	Hampton	00/00/1967	57	RG	DO		UN
08N	07E	33	6A	10	Jesse E Brown	Hampton	08/07/1974	41	RG	DO		NA
08N	07E	33	6B	11	David Tesar	Scherf	05/29/1978	36	RG	DO		UN
08N	07E	33	6C	12	Phillip Kronholz	Scherf	05/27/1978	42	RG	DO		NA
08N	07E	33	6D	13	Thomas Bridges	Scherf	05/25/1978	37	RG	DO		NA
08N	07E	33	6D	14	William Short	Scherf	07/03/1979	35	RG	DO		UN
08N	07E	33	6F	15	John Meiders	Kuntz	06/10/1969	31	RG	DO		UN
08N	07E	33	7A	16	Clifford Owens	Hampton	00/00/1967	51	RG	DO		NA
08N	07E	33	7B	17	James Bridges	Scherf	05/26/1978	32	RG	DO		NA
08N	07E	33	7B	18	Jerry Genovese	Sauder	08/08/1977	47	RG	DO		NA

**Table A-2 (Continued) Domestic Wells
Around Greater Peoria Airport**

TOWNSHIP	RANGE	SECTION	PLOT LOCATION	SECTION LOCATION NO	WELL OWNER	DRILLER	DATE	DEPTH	REC	USE	TY	AQ
08N	07E	33	7D	19	Steve Bridges	Scherf	05/27/1978	34	RG	DO		UN
08N	07E	33	7D	20	Stephen Madison	Scherf	10/10/1979	43	RG	DO		UN
08N	07E	33	8A	21	George Shores	Scherf	06/24/1983	30	RG	DO		UN
08N	07E	33	8A	22	David Howell	Hampton	08/07/1970	51	RG	DO		UN
08N	07E	33	8A	23	William Lover	Scherf	09/03/1981	31	RG	DO		UN
08N	07E	33	8A	24	Clarence Kreiter	Scherf	09/25/1977	35	RG	DO		NA
08N	07E	33	8A	25	Neal Flake	Scherf	10/04/1978	32	RG	DO		UN
08N	07E	33	8B	26	Don Bauer	Sauder	11/30/1983	53	RG	DO		UN
08N	07E	33	8C	27	Clayburn Barnett/Warner Neal	Scherf	05/22/1976	30	RG	DO		UN
08N	07E	33	8D	28	Richard Smith	Scherf	04/13/1974	38	RG	DO		UN
08N	07E	34	NA	1	Wayne Palmer (Dry Hole)	Scherf	01/17/1990	70	XRG	DO	BD	BR
08N	07E	34	6D	2	James Horan	Sauder	08/28/1979	58	RG	DO		UN
08N	07E	34	8B	3	Larry D. Noble	Hampton	10/00/1968	58	RG	DO		UN
08N	07E	35	NA	1	Wm. Wolschlag	NA	11/07/1916	35	OG	DO	BD	BR
08N	07E	35	7C	2	James Bridges	Scherf	10/21/1978	38	RG	DO		UN
08N	07E	36	NA	2	Ripley	NA	00/00/0000	20	O	DO		NA
08N	07E	36	NA	3	J H Linder	Crescent Mining Co	00/00/1931	164	RG	DO		BR

**Table A-3 Other Wells
Around Greater Peoria Airport**

TOWNSHIP	RANGE	SECTION	PLOT LOCATION	SECTION LOCATION NO.	WELL OWNER	DRILLER	DATE	DEPTH	REC	USE	TY	AQ
08N	07E	36	NA	1	Bartonville, IL.	NA	06/06/1918	NA	C	CS		NA
08N	08E	18	NA	1	Logan Field Park	NA	00/00/0000	NA	00	NA	--	NA
08N	08E	18	NA	2	Logan Field Park	NA	00/00/0000	NA	00	NA	--	NA
08N	08E	18	2D	3	Logan Field Park	Gray- Milaeger	00/00/1922	1499	RGC	PK		UN
08N	08E	18	6H	4	Manual High School	Albrecht	07/25/1981	112	RG	SC		UN
08N	07E	35	NA	5	Oak Grove School/Wm Schlag	NA	00/00/1916	35	RG	SC		NA
08N	08E	19	NA	55	Klean-Rite MW-2	Hischke	05/17/1992	15	RG	MO	--	UN
08N	08E	19	NA	56	Klean-Rite MW-1	Hischke	05/17/1992	15	RG	MO	--	UN
08N	08E	19	NA	57	Klean-Rite MW-3	Hischke	05/19/1992	15	RG	MO	--	UN
08N	08E	34	NA	4	Page Bus Co. MW-4	Hischke	09/24/1992	15	RG	MO	--	UN
08N	07E	25	NA	7	Peoria State Hospital	NA	00/00/0000	NA	0	ST		NA
08N	07E	25	NA	8	Peoria State Hospital	NA	00/00/0000	NA	0	ST		NA
08N	07E	26	1A	3	Peoria State Hospital	NA	00/00/0000	1864	NA	ST		NA
08N	08E	07	5A	6	Peoria Water Works (TW)	M Ebert Co.	00/00/1947	165	XGOC	MU		UN

Appendix B: Field Change Request Forms

FIELD CHANGE REQUEST FORM

Field Change No. 1Page 1 of 1PROJECT PEORIA SITE INVESTIGATIONPROJECT NO. 9247M 911655-03APPLICABLE DOCUMENT: FINAL SITE INVESTIGATION SAMPLING ANDDESCRIPTION: ANALYSIS PLAN, SEPT 1992SECTION 2.7 DECON PROCEDURESTABLE 2-4. DECON procedure changed toALCONEX, TYPE II H₂O, METHANOL, TYPE II WATER

REASON:

- Cold weather preventing drying of the sampling
equipment; therefore, the final chemical RINSE
should be omitted

RECOMMENDED DISPOSITION:

CHANGE DECON procedure for duration of
field work

IMPACT ON PRESENT AND COMPLETED WORK:

NONE

FINAL DISPOSITION:

REQUESTED BY:

FIELD / PROJECT MANAGER: Joan McKee / PM

APPROVALS:

HAZWAP PROJECT MANAGER: Bill Johnston

FIELD CHANGE REQUEST FORM

Field Change No. 2Page 1 of 1PROJECT PERDIA SIPROJECT NO. 911655-03APPLICABLE DOCUMENT: Final SAP Sept. 1992

DESCRIPTION:

2.5.2 Piezometers Pg 2-31
"5 foot screen to be installed" changed to
10 foot screen

REASON:

Water table is high due to time of
year. 10 foot screen recommended in order
to compensate.

RECOMMENDED DISPOSITION:

All piezo's to be installed with
10 foot screens

IMPACT ON PRESENT AND COMPLETED WORK:

~~None~~ Additional cost for an extra 5' screen

FINAL DISPOSITION:

REQUESTED BY:

FIELD / PROJECT MANAGER:

APPROVALS:

HAZWRAP PROJECT MANAGER:

Jean E. McKee / PM
Bill Johnston

FIELD CHANGE REQUEST FORM

Field Change No. 3Page 1 of 1PROJECT Peoria SIPROJECT NO. 911655-03APPLICABLE DOCUMENT: Final SAP Sept. 1992

DESCRIPTION:

2.5.1 Soil Sampling
soil sampling at 5-foot intervals change
to continuous sampling.

REASON:

shallow water table (<10') is resulting in no more
than two samples per boring at 5 foot intervals.

RECOMMENDED DISPOSITION:

Continuous sampling for the remainder of the
boring.

IMPACT ON PRESENT AND COMPLETED WORK:

Note: Samples screened on field prior
to submittal of lab samples

FINAL DISPOSITION:

REQUESTED BY:

FIELD / PROJECT MANAGER:

Jean McKee / PM

APPROVALS:

HAZWAP PROJECT MANAGER:

Bill Johnston

FIELD CHANGE REQUEST FORM

Field Change No. 4Page 1 of 1PROJECT PEORIA SIPROJECT NO. 911655-03APPLICABLE DOCUMENT: FINAL JAP SEPT, 1992

DESCRIPTION:

"Semivolatiles to be analyzed by CLP methods"
CHANGE to semivolatiles to be analyzed by
SW 846 8270

REASON:

While the methods are similar, the IEPA
is more familiar with SW 846 methods.

RECOMMENDED DISPOSITION:

All samples to be analyzed SWOC
So by 8270

IMPACT ON PRESENT AND COMPLETED WORK:

None

FINAL DISPOSITION:

REQUESTED BY:

FIELD / PROJECT MANAGER: Jean E. McKee

APPROVALS:

HAZWRAP PROJECT MANAGER: Bill Johnston

FIELD CHANGE REQUEST FORM

Field Change No. 1

Page 1 of 1

PROJECT ELGIN SITE INVESTIGATION

PROJECT NO. 9247M 911655-C3

APPLICABLE DOCUMENT: Sinal Site Investigation Sampling and

DESCRIPTION: Analysis Plan, Sept 1992

SECTION 2.7 Decon Procedures

TABLE 2-4. Decon procedure changed to

ALCONEX, TYPE II H₂O, Methanol, Type II Water

REASON:

- Cold weather preventing draining of the sampling-
equipment; therefore the final chemical rinse
should be omitted

RECOMMENDED DISPOSITION:

CHANGE Decon procedure for duration of
field work

IMPACT ON PRESENT AND COMPLETED WORK:

None

FINAL DISPOSITION:

REQUESTED BY:
FIELD / PROJECT MANAGER: Jean McKee / PNL

APPROVALS:
HAZWRAP PROJECT MANAGER: _____

FIELD CHANGE REQUEST FORM

Field Change No. 2

Page 1 of 1

PROJECT PEIRIA SI

PROJECT NO. 911655-03

APPLICABLE DOCUMENT: Final SAP Sept 1992

DESCRIPTION:

2.5.2 Piezometers Pg 2-31
" 5 foot screen to be installed" changed to
10 foot screen

REASON:

Water table is high due to time of
year. 10 foot screen recommended in order
to compensate

RECOMMENDED DISPOSITION:

All piezo's to be installed with
10 foot screens

IMPACT ON PRESENT AND COMPLETED WORK:

~~None~~ Additional cost for an extra 5' screen

FINAL DISPOSITION:

REQUESTED BY:

FIELD / PROJECT MANAGER: Dean E. McKee / PM

APPROVALS:

HAZWRAP PROJECT MANAGER: _____

FIELD CHANGE REQUEST FORM

Field Change No. 3

Page 1 of 1

PROJECT PERCIA SI

PROJECT NO. 911655-C3

APPLICABLE DOCUMENT: Final SAP Sept. 1992

DESCRIPTION:

2.5 | Soil Sampling

Soil sampling at 5-foot intervals change

to continuous sampling

REASON:

shallow water table (<10') is resulting in no more
than two samples per boring at 5 foot intervals.

RECOMMENDED DISPOSITION:

continuous sampling for the remainder of the
borings.

IMPACT ON PRESENT AND COMPLETED WORK:

None. Samples secured on field basis
to the submittal of lab samples

FINAL DISPOSITION:

REQUESTED BY:
FIELD / PROJECT MANAGER: Jean McKee / PM

APPROVALS:
HAZWRAP PROJECT MANAGER: _____

FIELD CHANGE REQUEST FORM

Field Change No. 4

Page 1 of 1

PROJECT PEORIA SI

PROJECT NO. 911655-C3

APPLICABLE DOCUMENT: FIAL SAP SEPT, 1992

DESCRIPTION:

"Semivolatiles to be analyzed by CLP methods"
change to semivolatiles to be analyzed by
SW 846 8270

REASON:

While the methods are similar, the IEPA
is more familiar with SW 846 methods.

RECOMMENDED DISPOSITION:

All samples to be analyzed SVOC
by 8270

IMPACT ON PRESENT AND COMPLETED WORK:

None

FINAL DISPOSITION:

REQUESTED BY:

FIELD / PROJECT MANAGER: Jean E. McKee

APPROVALS:

HAZWRAP PROJECT MANAGER: _____

1-16-93

FIELD CHANGE REQUEST FORM

Field Change No. 5

Page 1 of 1

PROJECT Site Investigation - Peoria

PROJECT NO. 911655-03

APPLICABLE DOCUMENT: SI SAP, September 1992

DESCRIPTION:

pg 2-37 "newly constructed well stabilized
for approximately 1 week ~~prior~~ prior to
sampling" Revise to 24 hours prior to sampling

REASON:

One week stabilization time was an inadvertent
error. 24 hours is the correct time.

RECOMMENDED DISPOSITION:

Revise and implement

IMPACT ON PRESENT AND COMPLETED WORK:

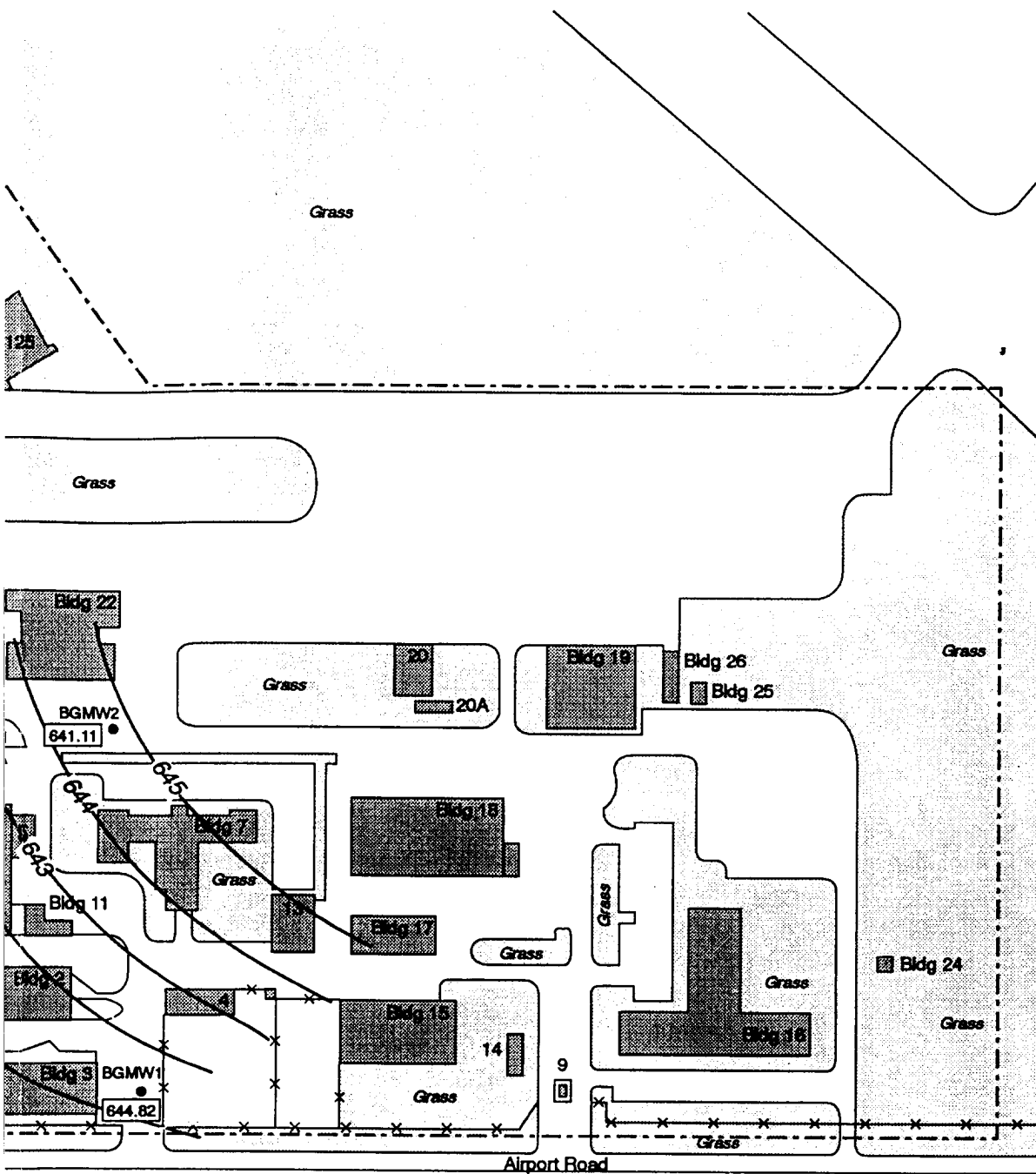
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FINAL DISPOSITION:









REQUESTED BY:
FIELD / PROJECT MANAGER: Jean E McKee / PM

APPROVALS:
HAZWRAP PROJECT MANAGER: _____

Appendix C: Groundwater Elevation Measurements and Aquifer Test Data



Explanation

-  Building
-  Fence line
-  Site under investigation
-  Base boundary
-  Piezometer location
-  Monitoring well location
-  Groundwater contour
-  Groundwater elevation

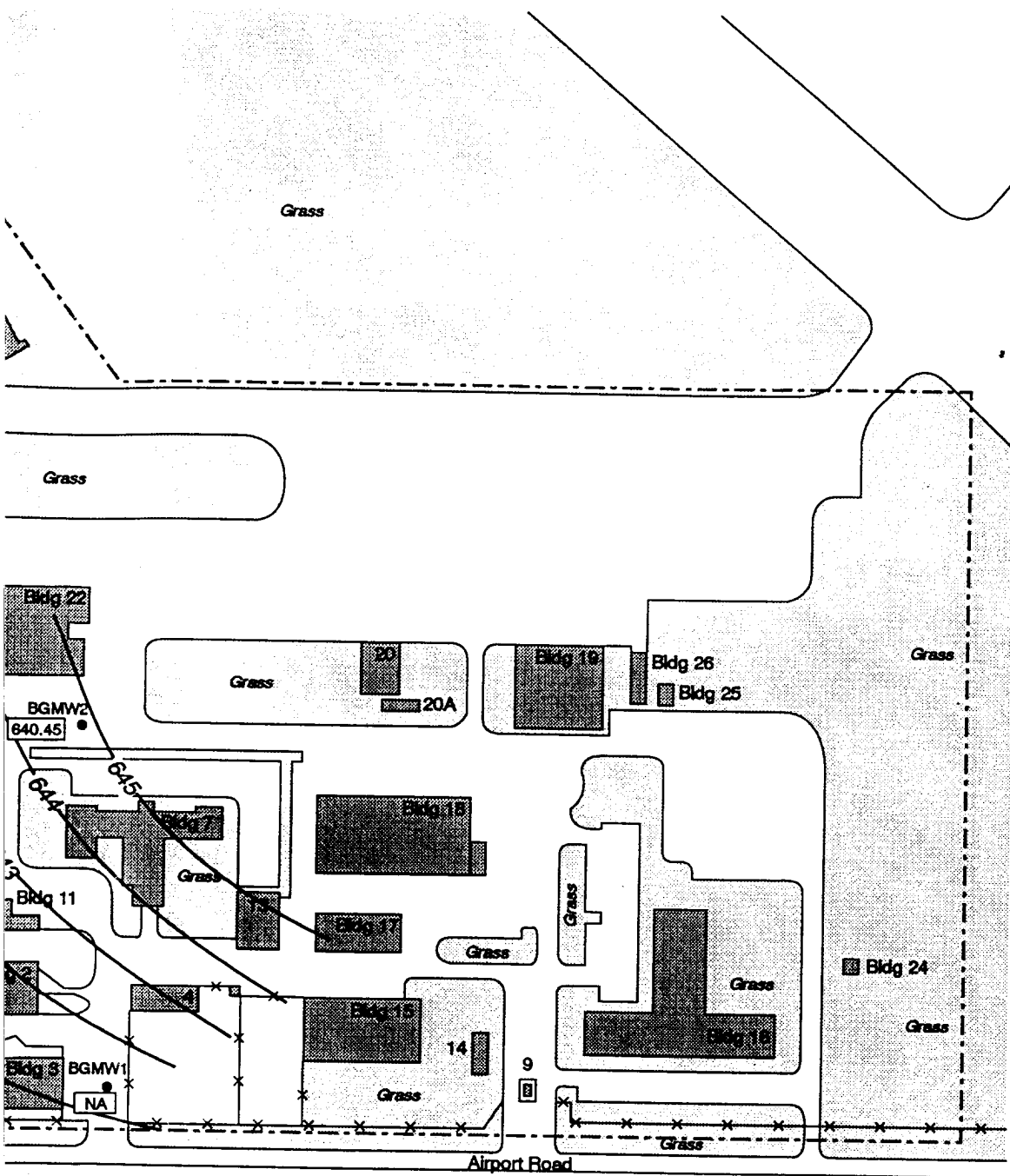
EARTH TECH

Project No. 911655
Illinois ANG, 182nd FG
GPRA, Peoria, Illinois










Facility Groundwater Elevation Map January 21, 1993

12-94

Figure X-Y



Explanation

-  Building
-  Fence line
-  Site under investigation
-  Base boundary
-  Piezometer location
-  Monitoring well location
-  Groundwater contour
-  Groundwater elevation
-  Well not installed at this time

Project No. 911655
 Illinois ANG, 182nd FG
 GPRA, Peoria, Illinois

Facility Groundwater Elevation Map December 13, 1992

12-94

Figure X-Y



Potentiometric Level Measurement (Tape, Electric Sounder)

Page 1 of

Project Name Peoria AN6 Project No. 911655

Location _____

Well Designation _____ State Permit No. _____ Owner _____

Date of Completion _____ Use of Water _____ Well Depth _____

Diameter _____ Casing Type _____ Screen Type _____

Screened/Open Intervals _____

Aquifer(s) Screened _____

Pump Type _____

Elevation of Ground Surface _____ Elevation of Measuring Point _____

Previous Static Level _____ Elevation Difference between Ground Surface and Measuring Point _____

Well # 262W plot 4

Date (Mo. Da. Yr)	Time (24 Hr. Clock)	Tape Reading At Measuring Point	Tape Reading at Water Mark	Tol. M.P. Correction	Instrument Correction	Water Level Below Ground Surface	Water Level Above MSL	Instrument Type And Number	Recorded by	Remarks
1-21-93		PE1	2.69	643.10			640.41		PHC	
1-21-93		PE2	3.84	645.06			641.22		"	
1-21-93		PE3	7.49	638.97			631.48		"	
1-21-93		PE4	3.10	639.56			636.46		"	
1-21-93		1MW1	2.50	642.93			640.43		"	
1-21-93		3AMW1	3.65	645.40			641.75		"	
1-21-93		3BMW1	4.44	644.47			640.03		"	
1-21-93		3CM11	5.13	641.76			636.63		"	
1-21-93		B61	6.24	647.35			641.11		"	

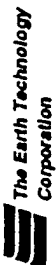
644.82

2.54

B62

1-21-93

Comments



Potentiometric Level Measurement (Tape, Electric Sounder)

Page 1 of

Project Name Peoria AN6 Project No. 911655

Location _____

Well Designation _____ State Permit No. _____ Owner _____

Date of Completion _____ Use of Water _____ Well Depth _____

Diameter _____ Casing Type _____ Screen Type _____

Screened/Open Intervals _____

Aquifer(s) Screened _____

Pump Type _____

Elevation of Ground Surface _____ Elevation of Measuring Point _____

Previous Static Level _____ Elevation Difference between Ground Surface and Measuring Point _____

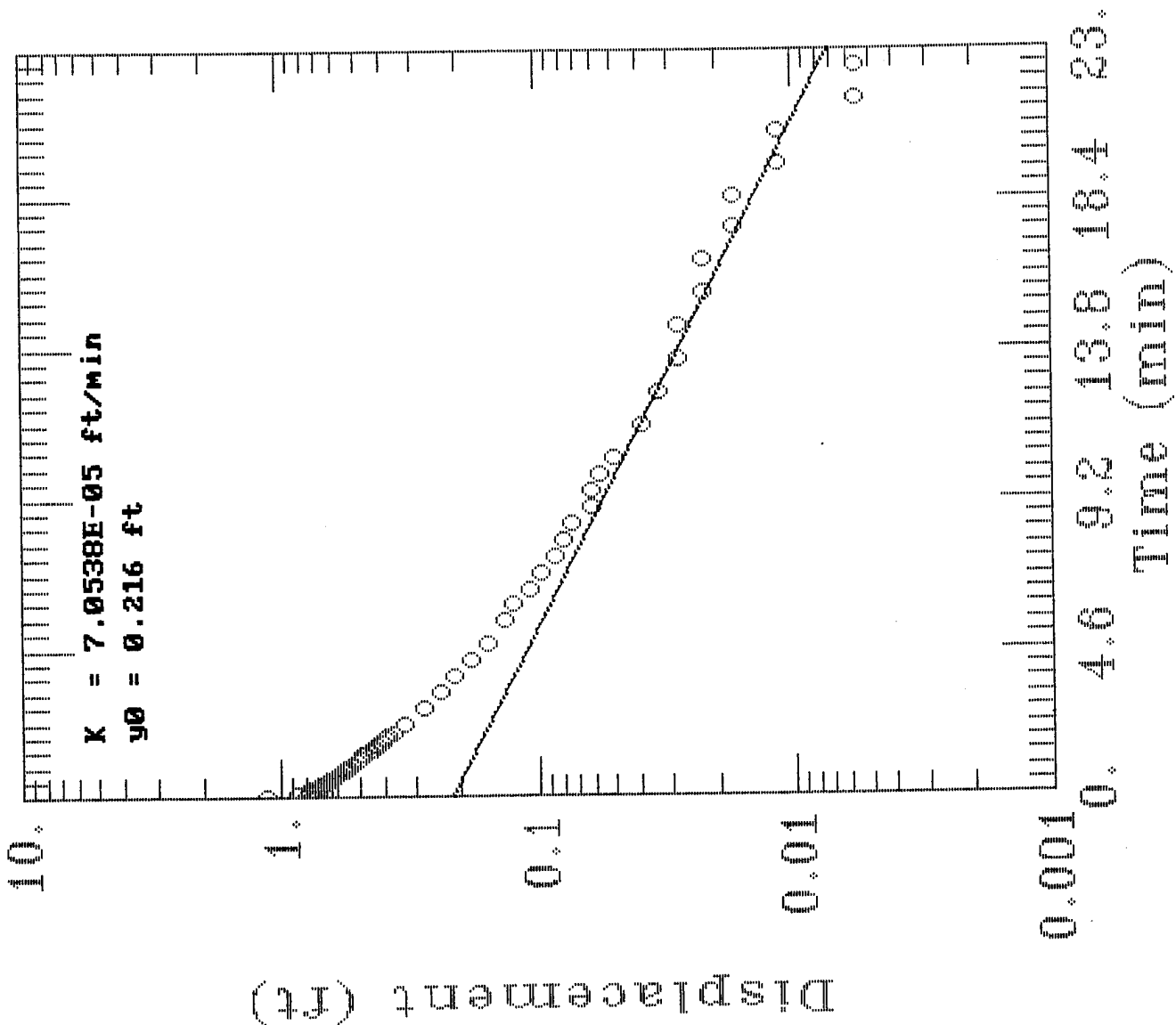
Drawing of Well and Measuring Point

well # below note 4

Date (Mo. Da. Yr)	Time (24 Hr. Clock)	Tape Reading at Measuring Point	Tape Reading at Water Mark	Tape M.P. Correction	Instrument Correction	Water Level Below Ground Surface	Water Level Above MSL	Instrument Type And Number	Recorded by	Remarks
4-18-93		PZ1	2.71	643.10			640.39		P16C	
4-18-93		PZ2	3.48	645.06			641.58		P24C	
4-18-93		PZ3	7.59	638.97			631.38		"	
4-18-93		PZ4	3.04	639.56			636.52		"	
4-18-93	1525	1MW1	2.13	642.93			640.80		"	
4-18-93	0818	3AMW1	3.66	645.40			641.74		"	
4-18-93	0841	3BMW1	3.96	644.47			640.51		"	
4-18-93	1005	3CMW1	3.58	641.76			638.18		"	
4-18-93	1301	861	5.28	647.35			642.07		"	
4-18-93	1743	802	2.25	647.36			645.11		"	

Comments

BG1 SLUG IN/STEP TEST



1 hr
TOTAL extra
1

BG1 SLUG IN STEP TEST

S/N SDEE-03A-SN-3230 Blo 1

Program: STEP TEST

Readings: 139

Start Tim 13:19:08

Start Dat 04/18

Range: 0010 PSI

Channels: 1

Units: Ft-H2O

Step 1

Interval 00:00:02

Readings 60

Time	Chnl 1			sec
13:19:08	7.8691	0	0	
13:19:10	8.9957	1.1266	0.03	2
13:19:12	8.6802	0.8111	0.067	4
13:19:14	8.7309	0.8618	0.1	6
13:19:16	8.5507	0.6816	0.13	8
13:19:18	8.5957	0.7266	0.167	10
13:19:20	8.6577	0.7886	0.2	12
13:19:22	8.6577	0.7886	0.23	14
13:19:24	8.607	0.7379	0.267	16
13:19:26	8.5957	0.7266	0.3	18
13:19:28	8.5845	0.7154	0.33	20
13:19:30	8.5732	0.7041	0.367	22
13:19:32	8.5619	0.6928	0.4	24
13:19:34	8.5507	0.6816	0.43	26
13:19:36	8.5394	0.6703	0.467	28
13:19:38	8.5281	0.659	0.5	30
13:19:40	8.5169	0.6478	0.53	32
13:19:42	8.5112	0.6421	0.567	34
13:19:44	8.5	0.6309	0.6	36
13:19:46	8.4887	0.6196	0.63	38
13:19:48	8.4831	0.614	0.667	40
13:19:50	8.4718	0.6027	0.7	42
13:19:52	8.4662	0.5971	0.73	44
13:19:54	8.4549	0.5858	0.767	46
13:19:56	8.4493	0.5802	0.8	48
13:19:58	8.438	0.5689	0.83	50
13:20:00	8.4324	0.5633	0.867	52
13:20:02	8.4267	0.5576	0.9	54
13:20:04	8.4155	0.5464	0.93	56
13:20:06	8.4099	0.5408	0.967	58
13:20:08	8.4042	0.5351	1	60
13:20:10	8.3986	0.5295	1.03	
13:20:12	8.3873	0.5182	1.067	
13:20:14	8.3817	0.5126	1.1	
13:20:16	8.4042	0.5351	1.13	
13:20:18	8.3704	0.5013	1.167	
13:20:20	8.3648	0.4957	1.2	

13:19:08

13:20:22	8.3592	0.4901	1.22
13:20:24	8.3535	0.4844	1.26
13:20:26	8.3479	0.4788	5
13:20:28	8.3366	0.4675	1.33
13:20:30	8.331	0.4619	1.347
13:20:32	8.331	0.4619	1.4
13:20:34	8.3254	0.4563	1.43
13:20:36	8.3197	0.4506	1.467
13:20:38	8.3085	0.4394	1.5
13:20:40	8.3085	0.4394	1.53
13:20:42	8.3028	0.4337	1.567
13:20:44	8.2972	0.4281	1.6
13:20:46	8.2916	0.4225	1.63
13:20:48	8.2859	0.4168	1.667
13:20:50	8.2803	0.4112	1.7
13:20:52	8.2747	0.4056	1.73
13:20:54	8.269	0.3999	1.767
13:20:56	8.2634	0.3943	1.8
13:20:58	8.2578	0.3887	1.83
13:21:00	8.2578	0.3887	1.86
13:21:02	8.2521	0.383	1.9
13:21:04	8.2465	0.3774	1.93
13:21:06	8.2409	0.3718	1.967

-7.8691

Step 2 -7.8691

Interval 00:00:10 -7.8691

Readings 48 40.1309

-7.8691

Time Chnl 1 -7.8691

13:21:16	8.2183	0.3492	
13:21:26	8.2014	0.3323	2.3
13:21:36	8.1845	0.3154	2.467
13:21:46	8.1338	0.2647	2.63
13:21:56	8.1507	0.2816	2.8
13:22:06	8.1507	0.2816	2.967
13:22:16	8.1169	0.2478	3.13
13:22:26	8.1113	0.2422	3.3

13:22:36	8.1	0.2309	3.467
13:22:46	8.0888	0.2197	3.63
13:22:56	8.0775	0.2084	3.8
13:23:06	8.0662	0.1971	3.967
13:23:16	8.0606	0.1915	4.13
13:23:26	8.0493	0.1802	4.3
13:23:36	8.0437	0.1746	4.467
13:23:46	8.0381	0.169	4.63
13:23:56	8.0268	0.1577	4.8
13:24:06	8.0212	0.1521	4.967
13:24:16	8.0155	0.1464	
13:24:26	8.0099	0.1408	
13:24:36	8.0043	0.1352	5.467
13:24:46	7.9986	0.1295	
13:24:56	7.993	0.1239	

13:25:06	7.993	0.1239	5.967
13:25:16	7.9818	0.1127	
13:25:26	7.9818	0.1127	
13:25:36	7.9761	0.107	6.467
13:25:46	7.9705	0.1014	
13:25:56	7.9649	0.0958	
13:26:06	7.9649	0.0958	6.967
13:26:16	7.9592	0.0901	
13:26:26	7.9536	0.0845	
13:26:36	7.9536	0.0845	-7.467
13:26:46	7.9592	0.0901	
13:26:56	7.9536	0.0845	
13:27:06	7.948	0.0789	-7.967
13:27:16	7.948	0.0789	
13:27:26	7.948	0.0789	
13:27:36	7.9423	0.0732	8.467
13:27:46	7.9423	0.0732	
13:27:56	7.9367	0.0676	
13:28:06	7.9311	0.062	8.967
13:28:16	7.9311	0.062	
13:28:26	7.9311	0.062	
13:28:36	7.9311	0.062	9.467
13:28:46	7.9311	0.062	
13:28:56	7.9254	0.0563	
13:29:06	7.9254	0.0563	9.967
-----		-7.8691	

Step 3 -7.8691

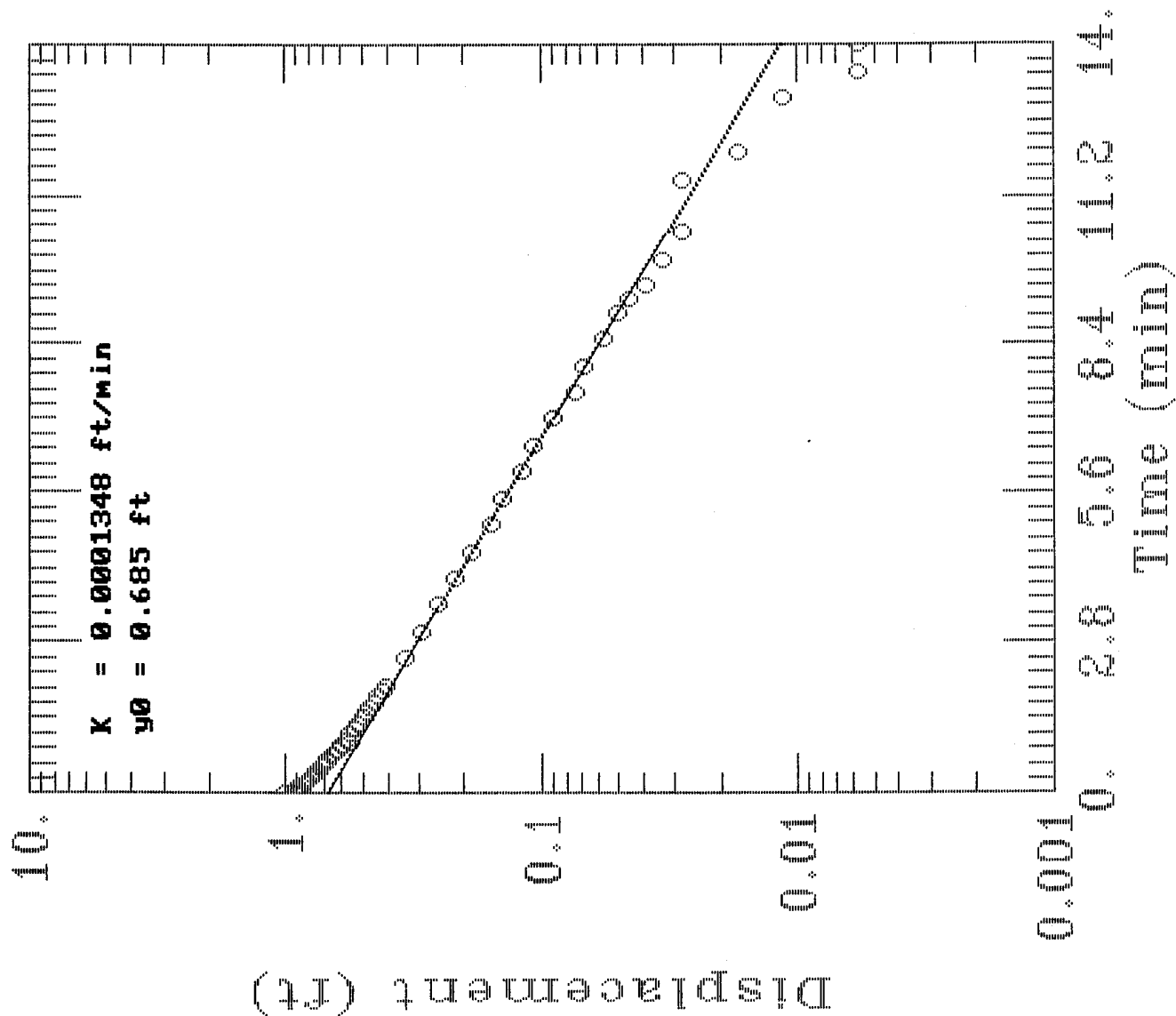
Interval 00:00:30 -7.8691

Readings 40 32.1309

----- -7.8691

Time	Chnl 1		
13:29:36	7.9198	0.0507	10.467
13:30:06	7.9142	0.0451	
13:30:36	7.9085	0.0394	-11.467
13:31:06	7.9085	0.0394	
13:31:36	7.9029	0.0338	12.467
13:32:06	7.9029	0.0338	
13:32:36	7.8973	0.0282	-13.467
13:33:06	7.8973	0.0282	
13:33:36	7.8973	0.0282	14.467
13:34:06	7.8916	0.0225	
13:34:36	7.8916	0.0225	15.467
13:35:06	7.886	0.0169	
13:35:36	7.8916	0.0225	16.467
13:36:06	7.886	0.0169	
13:36:36	7.886	0.0169	17.467
13:37:06	7.886	0.0169	
13:37:36	7.886	0.0169	18.467
13:38:06	7.886	0.0169	
13:38:36	7.8804	0.0113	19.467
13:39:06	7.8804	0.0113	
13:39:36	7.8804	0.0113	20.467
13:40:06	7.8804	0.0113	
13:40:36	7.8747	0.0056	21.467
13:41:06	7.8747	0.0056	
13:41:36	7.8747	0.0056	22.467
13:42:06	7.8691	0	
13:42:36	7.8691	0	
13:43:06	7.8747	0.0056	
13:43:36	7.8747	0.0056	

BG1 SLUG OUT/STEP TEST



BG1 SLUG OUT STEP TEST

S/N SDEE-03A-SN-3230 Block 1

Program: STEP TEST

Readings:119

Start Tim13:46:12

Start Dat04/18

Range: 0010 PSI

Channels:1

Units: Ft-H2O

Step 1

Interval 00:00:02

Readings 60

ts 13:46:10

Time	Chnl 1		
13:46:12	6.8214	1.0083	0.03
13:46:14	6.8946	0.9351	0.037
13:46:16	6.9284	0.9013	0.1
13:46:18	6.9509	0.8788	0.13
13:46:20	6.9678	0.8619	0.167
13:46:22	6.9904	0.8393	0.2
13:46:24	7.0073	0.8224	0.23
13:46:26	7.0242	0.8055	0.267
13:46:28	7.0354	0.7943	0.3
13:46:30	7.0467	0.783	0.33
13:46:32	7.0636	0.7661	0.367
13:46:34	7.0749	0.7548	0.4
13:46:36	7.0861	0.7436	0.43
13:46:38	7.1030	0.7267	0.467
13:46:40	7.1087	0.721	0.5
13:46:42	7.1199	0.7098	0.53
13:46:44	7.1312	0.6985	0.567
13:46:46	7.1481	0.6816	0.6
13:46:48	7.1481	0.6816	0.63
13:46:50	7.1593	0.6704	0.667
13:46:52	7.1706	0.6591	0.7
13:46:54	7.1819	0.6478	0.73
13:46:56	7.1931	0.6366	0.767
13:46:58	7.1988	0.6309	0.8
13:47:00	7.2044	0.6253	0.83
13:47:02	7.2100	0.6197	0.867
13:47:04	7.2213	0.6084	0.9
13:47:06	7.2326	0.5971	0.93
13:47:08	7.2382	0.5915	0.967
13:47:10	7.2495	0.5802	1.0
13:47:12	7.2551	0.5746	1.03
13:47:14	7.2607	0.569	1.067
13:47:16	7.2664	0.5633	1.1
13:47:18	7.2776	0.5521	1.13

134610

13:47:20	7.2833	0.5464	1.67
13:47:22	7.2889	0.5408	2
13:47:24	7.3002	0.5295	1.23
13:47:26	7.3058	0.5239	1.267
13:47:28	7.3114	0.5183	1.3
13:47:30	7.3171	0.5126	1.33
13:47:32	7.3227	0.507	1.367
13:47:34	7.3283	0.5014	1.4
13:47:36	7.3340	0.4957	1.43
13:47:38	7.3396	0.4901	1.467
13:47:40	7.3452	0.4845	1.5
13:47:42	7.3565	0.4732	1.53
13:47:44	7.3565	0.4732	1.561
13:47:46	7.3621	0.4676	1.6
13:47:48	7.3678	0.4619	1.63
13:47:50	7.3734	0.4563	1.662
13:47:52	7.3790	0.4507	1.7
13:47:54	7.3847	0.445	1.73
13:47:56	7.3903	0.4394	1.767
13:47:58	7.3959	0.4338	1.8
13:48:00	7.4016	0.4281	1.83
13:48:02	7.4072	0.4225	1.867
13:48:04	7.4128	0.4169	1.9
13:48:06	7.4128	0.4169	1.93
13:48:08	7.4185	0.4112	1.967
13:48:10	7.4241	0.4056	2.0
-----		7.8297	

Step 2 7.8297
Interval 00:00:10 7.8297
Readings 48 7.8297
----- 7.8297

Time	Chnl 1	7.8297
13:48:20	7.4523	0.3774
13:48:30	7.4692	0.3605
13:48:40	7.4917	0.338 2.5
13:48:50	7.5086	0.3211
13:49:00	7.5255	0.3042
13:49:10	7.5368	0.2929 3.0
13:49:20	7.5537	0.276
13:49:30	7.5706	0.2591
13:49:40	7.5762	0.2535 3.5
13:49:50	7.5931	0.2366
13:50:00	7.6043	0.2254
13:50:10	7.6156	0.2141 4.0
13:50:20	7.6269	0.2028
13:50:30	7.6325	0.1972
13:50:40	7.6438	0.1859 4.5
13:50:50	7.6550	0.1747
13:51:00	7.6607	0.169
13:51:10	7.6719	0.1578 5.0
13:51:20	7.6776	0.1521
13:51:30	7.6888	0.1409
13:51:40	7.6888	0.1409 5.5
13:51:50	7.7001	0.1296
13:52:00	7.7001	0.1296

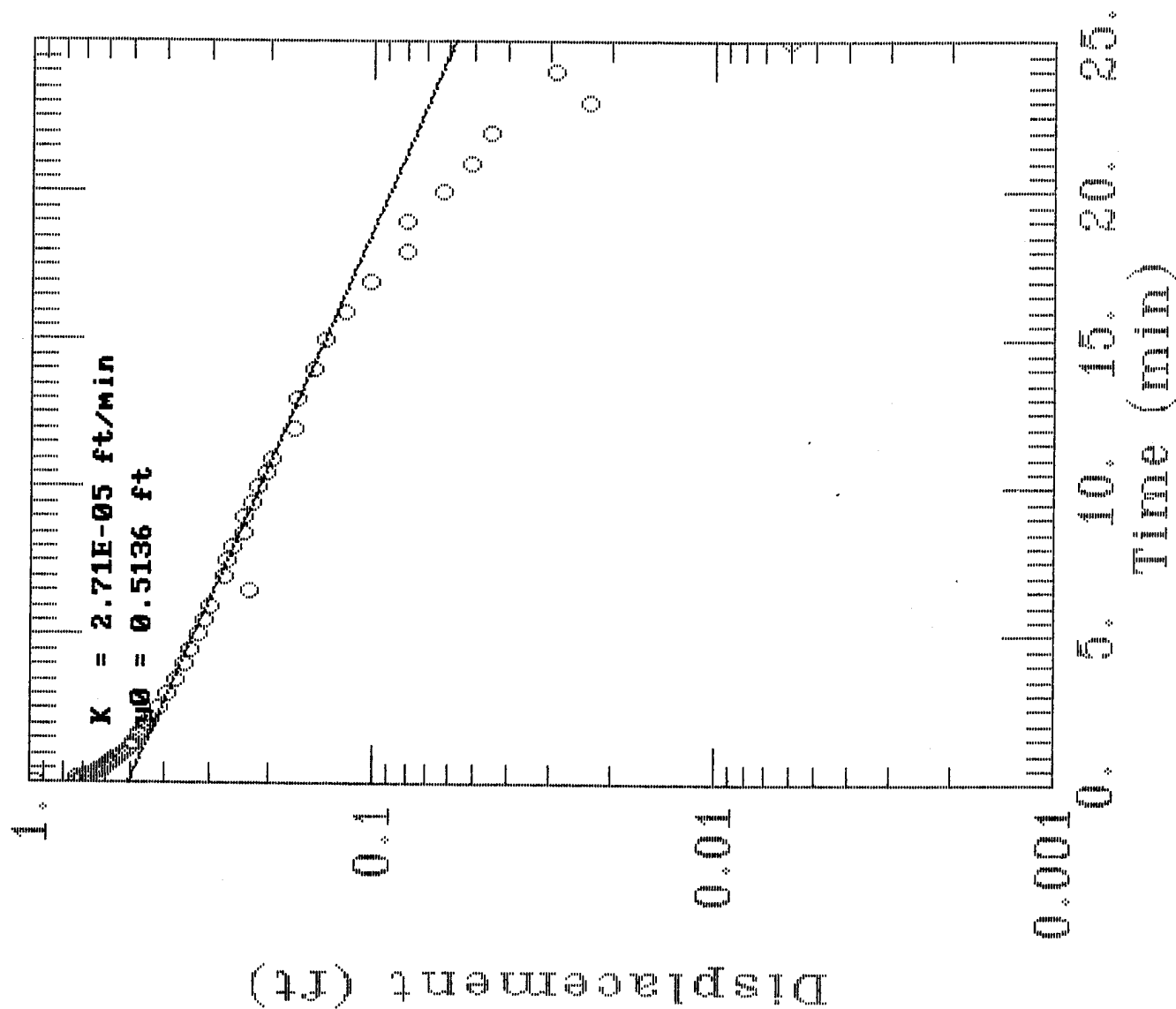
13:46 1.0

13:52:10	7.7114	0.1183	6.0
13:52:20	7.7170	0.1127	
13:52:30	7.7170	0.1127	
13:52:40	7.7226	0.1071	6.5
13:52:50	7.7283	0.1014	
<hr/>			
13:53:00	7.7339	0.0958	
13:53:10	7.7395	0.0902	7.0
13:53:20	7.7508	0.0789	
13:53:30	7.7508	0.0789	
13:53:40	7.7564	0.0733	7.5
<hr/>			
13:53:50	7.7621	0.0676	
13:54:00	7.7621	0.0676	
13:54:10	7.7621	0.0676	8.0
13:54:20	7.7677	0.062	
<hr/>			
13:54:30	7.7733	0.0564	
13:54:40	7.7733	0.0564	8.5
13:54:50	7.7733	0.0564	
13:55:00	7.7790	0.0507	
13:55:10	7.7790	0.0507	9.0
<hr/>			
13:55:20	7.7846	0.0451	
13:55:30	7.7846	0.0451	9.25
13:55:40	7.7902	0.0395	9.5
13:55:50	7.7902	0.0395	
13:56:00	7.7959	0.0338	
13:56:10	7.7959	0.0338	10.0
<hr/>			
-----		7.8297	
Step 3		7.8297	
Interval 00:00:30		7.8297	
Readings 40		7.8297	
-----		7.8297	
Time	Chnl 1	7.8297	
13:56:40	7.8015	0.0282	10.5
13:57:10	7.7846	0.0451	
13:57:40	7.8015	0.0282	11.5
13:58:10	7.8128	0.0169	12.0
13:58:40	7.7959	0.0338	
13:59:10	7.8184	0.0113	13.0

13:59:40	7.8240	0.0057	12.5
14:00:10	7.8240	0.0057	14.0
14:00:40	7.8184	0.0113	
14:01:10	7.8240	0.0057	
14:01:40	7.8297	0	

Test 1 abtd at

BG2 SLUG IN/STEP TEST



BG 2

BQ2 SLUG IN STEP TEST

S/N SDEE-03A-SN-3230 Block 1

Program: STEP TEST

Readings: 139

Start Time: 18:06:00

Start Date: 04/18

Range: 0010 PSI

Channels: 1

Units: Ft-H2O

Step 1

Interval 00:00:02

Readings 60

 $t_0 = 18:05:58$

Time Chnl 1

18:06:00 13.434 0.958 0.03

18:06:02 13.203 0.727 0.067

~~18:06:04 12.871 0.395 0~~~~18:06:06 12.8140 0.338 0~~

18:06:08 13.2030 0.727 0.167

18:06:10 13.1750 0.699 0.2

18:06:12 13.1520 0.676 0.23

18:06:14 13.1470 0.671 0.267

18:06:16 13.1350 0.659 0.3

18:06:18 13.1240 0.648 0.33

18:06:20 13.1180 0.642 0.367

18:06:22 13.1130 0.637 0.4

18:06:24 13.1020 0.626 0.43

18:06:26 13.0960 0.62 0.467

18:06:28 13.0900 0.614 0.5

18:06:30 13.0790 0.603 0.53

18:06:32 13.0730 0.597 0.567

18:06:34 13.0680 0.592 0.6

18:06:36 13.0680 0.592 0.63

18:06:38 13.0620 0.586 0.667

18:06:40 13.0570 0.581 0.7

18:06:42 13.0510 0.575 0.73

18:06:44 13.0450 0.569 0.767

18:06:46 13.0400 0.564 0.8

18:06:48 13.0340 0.558 0.83

18:06:50 13.0280 0.552 0.867

18:06:52 13.0230 0.547 0.9

18:06:54 13.0170 0.541 0.93

18:06:56 13.0110 0.535 0.967

18:06:58 13.0110 0.535 1.0

18:07:00 13.0060 0.53 1.03

18:07:02 13.0000 0.524

18:07:04 13.0000 0.524

18:07:06 12.9950 0.519

18:07:08 12.9890 0.513

18:07:10 12.9890 0.513

18:07:12 12.9830 0.507 1.23

18:07:14 12.9830 0.507

18:07:16 12.9780 0.502

1855:55

18:07:18	12.9780	0.502	1.33
18:07:20	12.9720	0.496	1.367
18:07:22	12.9720	0.496	1.4
18:07:24	12.9720	0.496	1.43
18:07:26	12.9660	0.49	1.467
18:07:28	12.9610	0.485	1.5
18:07:30	12.9610	0.485	1.53
18:07:32	12.9550	0.479	1.567
18:07:34	12.9550	0.479	1.6
18:07:36	12.9550	0.479	1.63
18:07:38	12.9500	0.474	1.667
18:07:40	12.9500	0.474	1.7
18:07:42	12.9330	0.457	1.73
18:07:44	12.9380	0.462	1.767
18:07:46	12.9380	0.462	1.8
18:07:48	12.9380	0.462	1.83
18:07:50	12.9380	0.462	1.867
18:07:52	12.9330	0.457	1.9
18:07:54	12.9270	0.451	1.93
18:07:56	12.9270	0.451	1.967
18:07:58	12.9270	0.451	2.0
		-12.476	
Step 2		-12.476	
Interval 00:00:10		-12.476	
Readings 48		-12.476	
		-12.476	
Time	Chnl 1	-12.476	
18:08:08	12.9160	0.44	2.167
18:08:18	12.8990	0.423	
18:08:28	12.8930	0.417	2.5
18:08:38	12.8880	0.412	
18:08:48	12.8820	0.406	
18:08:58	12.8710	0.395	3.0
18:09:08	12.8590	0.383	
18:09:18	12.8590	0.383	
18:09:28	12.8480	0.372	3.5
18:09:38	12.8420	0.366	
18:09:48	12.8370	0.361	
18:09:58	12.8310	0.355	4.0
18:10:08	12.8260	0.35	
18:10:18	12.8200	0.344	
18:10:28	12.8140	0.338	4.5
18:10:38	12.8090	0.333	
18:10:48	12.8030	0.327	
18:10:58	12.7970	0.321	5.0
18:11:08	12.7970	0.321	
18:11:18	12.7860	0.31	
18:11:28	12.7860	0.31	5.5
18:11:38	12.7810	0.305	
18:11:48	12.7810	0.305	
18:11:58	12.7750	0.299	6.0
18:12:08	12.7690	0.293	
18:12:18	12.7640	0.288	
18:12:28	12.7640	0.288	6.5
18:12:38	12.7580	0.282	

18:12:48	12.7520	0.276	
18:12:58	12.7470	0.271	7.0
18:13:08	12.7520	0.276	
18:13:18	12.7470	0.271	
18:13:28	12.7410	0.265	7.5
18:13:38	12.7350	0.259	
18:13:48	12.7350	0.259	
18:13:58	12.7300	0.254	8.0
18:14:08	12.7240	0.248	
18:14:18	12.7190	0.243	
18:14:28	12.7130	0.237	8.5
18:14:38	12.7190	0.243	
18:14:48	12.7130	0.237	
18:14:58	12.7130	0.237	9.0
18:15:08	12.7070	0.231	
18:15:18	12.7070	0.231	
18:15:28	12.7020	0.226	9.5
18:15:38	12.7020	0.226	
18:15:48	12.6900	0.214	
18:15:58	12.6900	0.214	10.0
-----		-12.476	

Step 3 -12.476
Interval 00:00:30 -12.476
Readings 40 -12.476

-12.476

Time	Chnl 1	-12.476	
18:16:28	12.6790	0.203	10.5
18:16:58	12.6730	0.197	11.
18:17:28	12.6620	0.186	11.5
18:17:58	12.6450	0.169	12.0
18:18:28	12.6510	0.175	12.5
18:18:58	12.6400	0.164	13.0
18:19:28	12.6280	0.152	13.5
18:19:58	12.6230	0.147	14.0
18:20:28	12.6170	0.141	14.5
18:20:58	12.6120	0.136	15
18:21:28	12.5950	0.119	15.5

18:21:58	12.5950	0.119	16.0
18:22:28	12.5830	0.107	16.5
18:22:58	12.5780	0.102	17.0
18:23:28	12.5780	0.102	17.5
18:23:58	12.5550	0.079	18.0
18:24:28	12.5610	0.085	18.5
18:24:58	12.5550	0.079	19
18:25:28	12.5500	0.074	
18:25:58	12.5380	0.062	20
18:26:28	12.5330	0.057	
18:26:58	12.5270	0.051	21
18:27:28	12.5270	0.051	
18:27:58	12.5210	0.045	22
18:28:28	12.5160	0.04	
18:28:58	12.4990	0.023	23

18:29:28	12.5160	0.04	
18:29:58	12.5050	0.029	u
18:30:28	12.4930	0.017	
18:30:58	12.4820	0.006	25
18:31:28	12.4760	0	

Test 1 abted at

BQ2 SLUG IN STEP TEST

S/N SDEE-03A-SN-3230 Block 1

Program: STEP TEST

Readings:139

Start Tim18:06:00

Start Dat04/18

Range: 0010 PSI

Channels:1

Units: Ft-H2O

Step 1

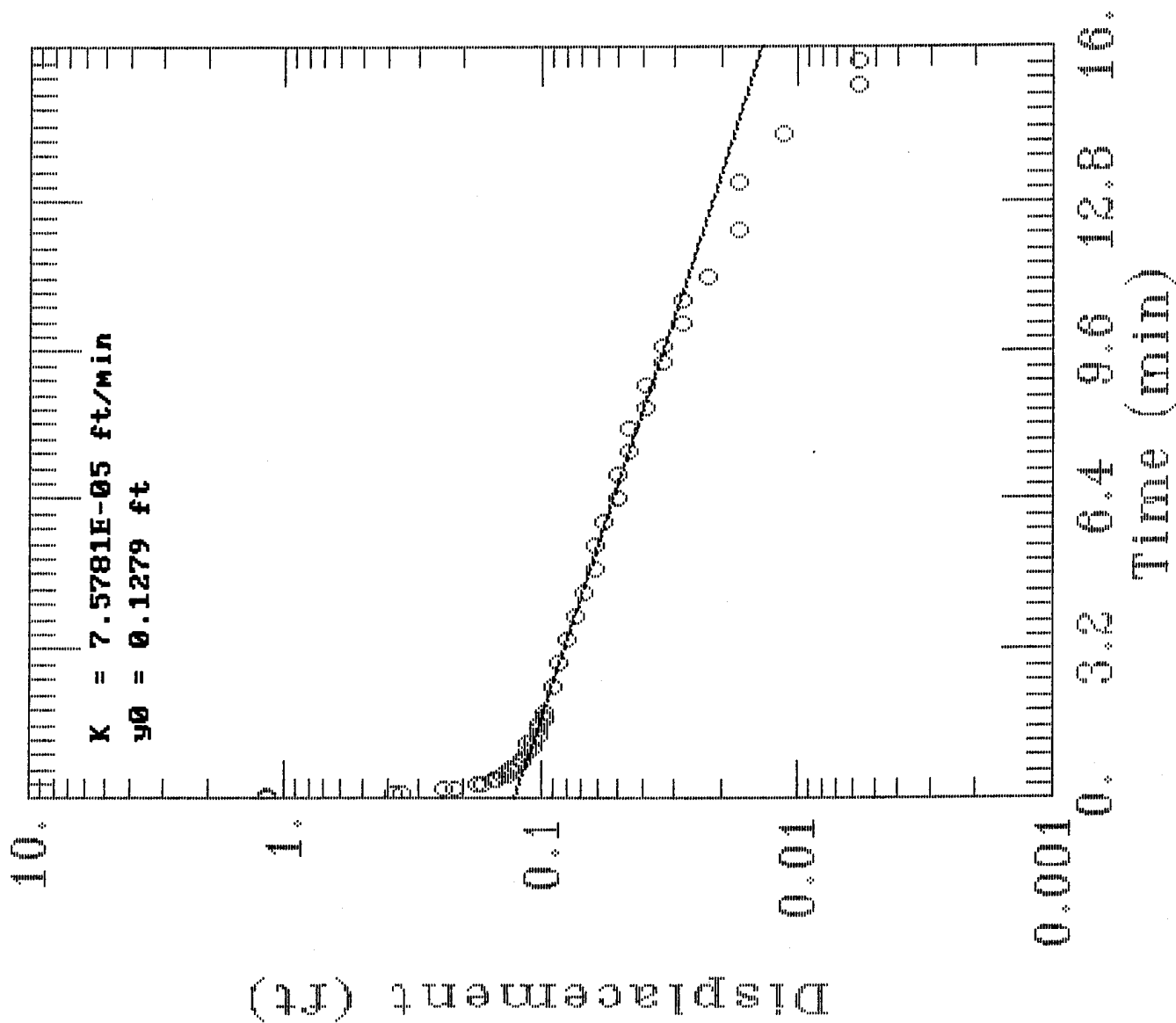
Interval 00:00:02

Readings 60

Time Chnl 1

18:06:00	13.434	0.958
18:06:02	13.203	0.727
18:06:04	12.871	0.395
18:06:06	12.8140	0.338
18:06:08	13.2030	0.727
18:06:10	13.1750	0.699
18:06:12	13.1520	0.676
18:06:14	13.1470	0.671
18:06:16	13.1350	0.659
18:06:18	13.1240	0.648
18:06:20	13.1180	0.642
18:06:22	13.1130	0.637
18:06:24	13.1020	0.626
18:06:26	13.0960	0.62
18:06:28	13.0900	0.614
18:06:30	13.0790	0.603
18:06:32	13.0730	0.597
18:06:34	13.0680	0.592
18:06:36	13.0680	0.592
18:06:38	13.0620	0.586
18:06:40	13.0570	0.581
18:06:42	13.0510	0.575
18:06:44	13.0450	0.569
18:06:46	13.0400	0.564
18:06:48	13.0340	0.558
18:06:50	13.0280	0.552

SITE 3C MW1 SLUG IN/STEP TEST



SITE 3C MW1 SLUG IN STEP TEST

S/N SDEE-03A-SN-3230 Block 1

Program: STEP TEST

Readings:123

Start Tim16:51:02

Start Dat04/18

Range: 0010 PSI

Channels:1

Units: Ft-H2O

Step 1

Interval 00:00:02

Readings 60

Time	Chnl 1	
16:51:02	6.1511	-0.2703
16:51:04	5.6948	-0.7266
16:51:06	6.6749	0.2535
16:51:08	6.9228	0.5014
16:51:10	6.9453	0.5239 -6=0
16:51:12	6.6242	0.2028 0.03
16:51:14	7.5987	1.1773 0.067
16:51:16	6.7707	0.3493 -0.1
16:51:18	6.7988	0.3774 0.13
16:51:20	6.6975	0.2761 0.1
16:51:22	6.658	0.2366 0.2
16:51:24	6.6355	0.2141 0.23
16:51:26	6.6186	0.1972 0.267
16:51:28	6.5961	0.1747 0.3
16:51:30	6.5904	0.169 0.33
16:51:32	6.5792	0.1578
16:51:34	6.5735	0.1521 0.4
16:51:36	6.5679	0.1465 0.43
16:51:38	6.5623	0.1409
16:51:40	6.5623	0.1409 0.5
16:51:42	6.5566	0.1352 0.53
16:51:44	6.5566	0.1352
16:51:46	6.551	0.1296 0.6
16:51:48	6.551	0.1296 0.63
16:51:50	6.551	0.1296
16:51:52	6.551	0.1296 0.7
16:51:54	6.5454	0.124 0.73
16:51:56	6.5228	0.1014
16:51:58	6.5397	0.1183 0.8
16:52:00	6.5397	0.1183
16:52:02	6.5397	0.1183
16:52:04	6.5397	0.1183 0.9
16:52:06	6.5397	0.1183
16:52:08	6.5397	0.1183
16:52:10	6.5341	0.1127 1.0
16:52:12	6.5341	0.1127
16:52:14	6.5341	0.1127
16:52:16	6.5285	0.1071 1.1
16:52:18	6.5285	0.1071
16:52:20	6.5285	0.1071
16:52:22	6.5341	0.1127 1.2

16:52:24	6.5285	0.1071	
16:52:26	6.5285	0.1071	
16:52:28	6.5285	0.1071	1.3
16:52:30	6.5285	0.1071	
16:52:32	6.5228	0.1014	
16:52:34	6.5228	0.1014	1.4
16:52:36	6.5228	0.1014	
16:52:38	6.5228	0.1014	
16:52:40	6.5228	0.1014	1.5
16:52:42	6.5228	0.1014	
16:52:44	6.5228	0.1014	
16:52:46	6.5228	0.1014	1.6
16:52:48	6.5228	0.1014	
16:52:50	6.5172	0.0958	
16:52:52	6.5172	0.0958	1.7
16:52:54	6.5172	0.0958	
16:52:56	6.5172	0.0958	

16:52:58	6.5172	0.0958	1.8
16:53:00	6.5172	0.0958	1.83
-----		-6.4214	
Step 2		-6.4214	
Interval 00:00:10		-6.4214	
Readings 48		-6.4214	
-----		-6.4214	
Time	Chnl 1	-6.4214	
16:53:10	6.5172	0.0958	1.9
16:53:20	6.5116	0.0902	2.067
16:53:30	6.5116	0.0902	2.23
16:53:40	6.5116	0.0902	2.4
16:53:50	6.5059	0.0845	
16:54:00	6.5059	0.0845	
16:54:10	6.5059	0.0845	2.9
16:54:20	6.5003	0.0789	
16:54:30	6.5003	0.0789	
16:54:40	6.5003	0.0789	3.4
16:54:50	6.4947	0.0733	
16:55:00	6.4947	0.0733	
16:55:10	6.4947	0.0733	3.9
16:55:20	6.4947	0.0733	
16:55:30	6.489	0.0676	
16:55:40	6.489	0.0676	4.4
16:55:50	6.489	0.0676	
16:56:00	6.489	0.0676	
16:56:10	6.4834	0.062	4.9
16:56:20	6.4834	0.062	
16:56:30	6.4834	0.062	
16:56:40	6.4834	0.062	5.4
16:56:50	6.4778	0.0564	
16:57:00	6.4778	0.0564	
16:57:10	6.4778	0.0564	5.9
16:57:20	6.4778	0.0564	
16:57:30	6.4721	0.0507	

16:57:40	6.4721	0.0507	6.4
16:57:50	6.4721	0.0507	
16:58:00	6.4665	0.0451	
16:58:10	6.4721	0.0507	6.9
16:58:20	6.4665	0.0451	
16:58:30	6.4665	0.0451	
16:58:40	6.4665	0.0451	7.4
16:58:50	6.4665	0.0451	
16:59:00	6.4665	0.0451	
16:59:10	6.4665	0.0451	3.9
16:59:20	6.4665	0.0451	
16:59:30	6.4665	0.0451	
16:59:40	6.4609	0.0395	3.4
16:59:50	6.4609	0.0395	
17:00:00	6.4552	0.0338	
17:00:10	6.4609	0.0395	8.9
17:00:20	6.4552	0.0338	
17:00:30	6.4552	0.0338	
17:00:40	6.4552	0.0338	9.4
17:00:50	6.4552	0.0338	
17:01:00	6.4552	0.0338	9.73

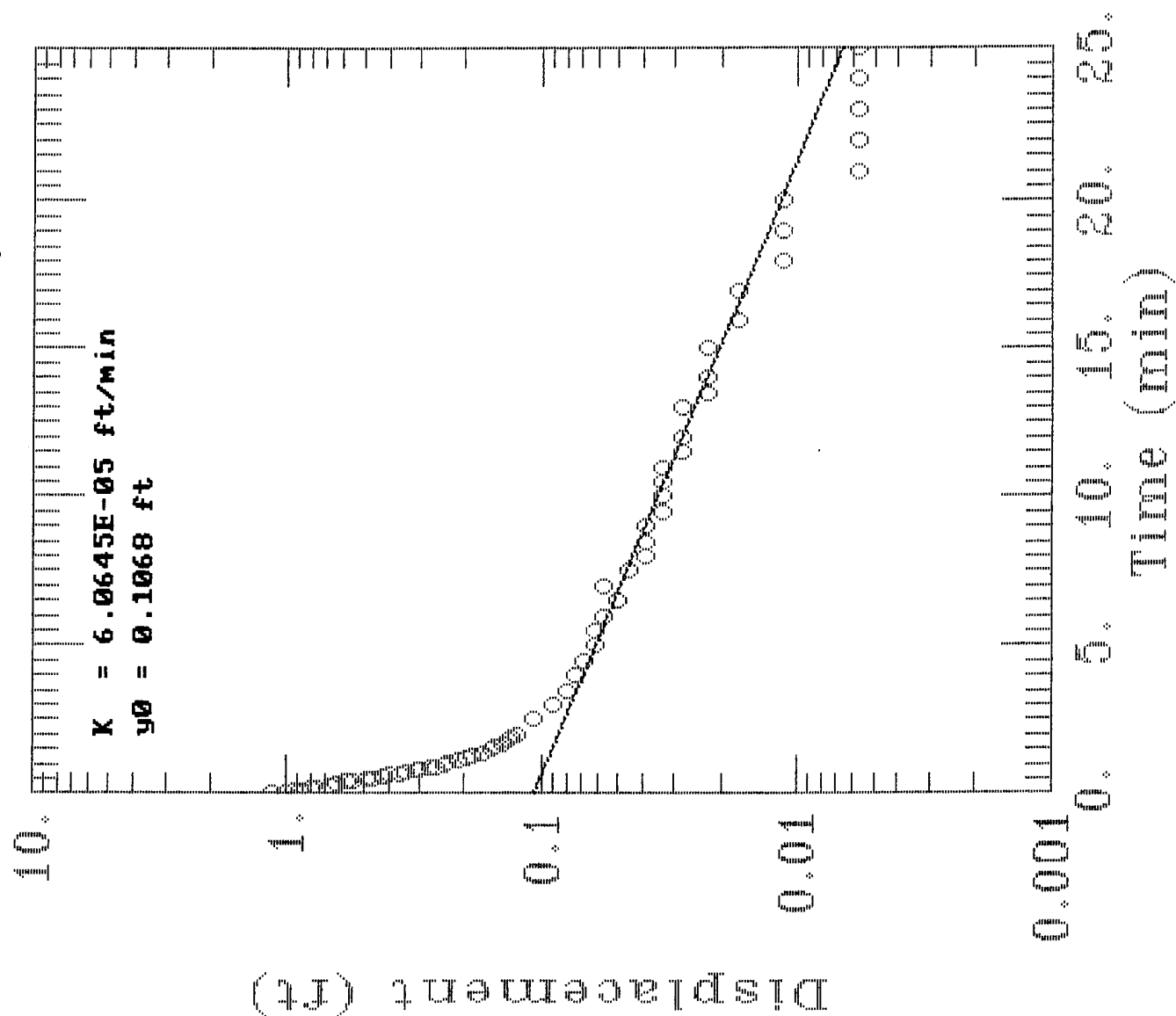
 -6.4214
 Step 3 -6.4214
 Interval 00:00:30 -6.4214
 Readings 40 -6.4214

 -6.4214

Time	Chnl 1		
17:01:30	6.4496	0.0282	10.23
17:02:00	6.4496	0.0282	10.73
17:02:30	6.444	0.0226	11.23
17:03:00	6.444	0.0226	
17:03:30	6.4383	0.0169	12.23
17:04:00	6.4383	0.0169	
17:04:30	6.4383	0.0169	13.23
17:05:00	6.4383	0.0169	
17:05:30	6.4327	0.0113	14.23
17:06:00	6.4271	0.0057	
17:06:30	6.4271	0.0057	15.23
17:07:00	6.4271	0.0057	15.73
17:07:30	6.4214	0	
17:08:00	6.4214	0	
17:08:30	6.4214	0	

Test 1 abted at -6.4214
 -6.4214
 -6.4214
 -6.4214
 -6.4214
 -6.4214
 -6.4214

SITE 3C MW1 SLUG OUT/STEP TEST



SITE 3C SLUG OUT STEP TEST

S/N SDEE-03A-SN-3230 Block 1

Program: STEP TEST

Readings:146

Start Tim17:10:22

Start Dat04/18

Range: 0010 PSI

Channels:1

Units: Ft-H2O

Step 1

Interval 00:00:02

Readings 60

Time	Chnl 1		
17:10:22	5.0414	1.1435	0.03
17:10:24	5.1822	1.0027	0.067
17:10:26	5.2498	0.9351	0.1
17:10:28	5.2949	0.89	0.13
17:10:30	5.3456	0.8393	
17:10:32	5.385	0.7999	0.2
17:10:34	5.4301	0.7548	0.23
17:10:36	5.4695	0.7154	
17:10:38	5.5089	0.676	0.3
17:10:40	5.5427	0.6422	0.33
17:10:42	5.5765	0.6084	
17:10:44	5.6103	0.5746	0.4
17:10:46	5.6385	0.5464	0.43
17:10:48	5.6666	0.5183	
17:10:50	5.6948	0.4901	0.5

td=171020

17:10:52	5.723	0.4619	0.53
17:10:54	5.7455	0.4394	
17:10:56	5.768	0.4169	0.6
17:10:58	5.7906	0.3943	0.63
17:11:00	5.8075	0.3774	
17:11:02	5.83	0.3549	0.7
17:11:04	5.8469	0.338	0.73
17:11:06	5.8582	0.3267	
17:11:08	5.8751	0.3098	0.8
17:11:10	5.8863	0.2986	0.83
17:11:12	5.9032	0.2817	
17:11:14	5.9145	0.2704	0.9
17:11:16	5.9257	0.2592	0.93
17:11:18	5.937	0.2479	
17:11:20	5.9426	0.2423	1.0
17:11:22	5.9539	0.231	1.03
17:11:24	5.9595	0.2254	
17:11:26	5.9652	0.2197	1.1
17:11:28	5.9764	0.2085	1.13
17:11:30	5.9821	0.2028	
17:11:32	5.9877	0.1972	1.2
17:11:34	5.9933	0.1916	
17:11:36	5.999	0.1859	
17:11:38	5.999	0.1859	1.3
17:11:40	6.0046	0.1803	
17:11:42	6.0102	0.1747	
17:11:44	6.0159	0.169	1.4
17:11:46	6.0159	0.169	
17:11:48	6.0215	0.1634	
17:11:50	6.0271	0.1578	1.5
17:11:52	6.0271	0.1578	
17:11:54	6.0328	0.1521	
17:11:56	6.0328	0.1521	1.6
17:11:58	6.0328	0.1521	
17:12:00	6.0384	0.1465	
17:12:02	6.044	0.1409	1.7
17:12:04	6.044	0.1409	

17:12:06	6.0497	0.1352	
17:12:08	6.0497	0.1352	1.8
17:12:10	6.0497	0.1352	
17:12:12	6.0553	0.1296	
17:12:14	6.0553	0.1296	1.9
17:12:16	6.0553	0.1296	
17:12:18	6.0553	0.1296	
17:12:20	6.0609	0.124	2.0

----- 6.1849

Step 2 6.1849

Interval 00:00:10 6.1849

Readings 48 6.1849

----- 6.1849

Time Chnl 1 6.1849

17:12:30 6.0722 0.1127 2.167

17:12:40	6.0722	0.1127	2
17:12:50	6.0778	0.1071	2.5
17:13:00	6.0835	0.1014	
17:13:10	6.0891	0.0958	
17:13:20	6.0947	0.0902	3
17:13:30	6.0947	0.0902	
17:13:40	6.1004	0.0845	
17:13:50	6.106	0.0789	3.5
17:14:00	6.106	0.0789	
17:14:10	6.106	0.0789	
17:14:20	6.1116	0.0733	4
17:14:30	6.1116	0.0733	
17:14:40	6.1173	0.0676	
17:14:50	6.1173	0.0676	4.5
17:15:00	6.1173	0.0676	
17:15:10	6.1229	0.062	
17:15:20	6.1229	0.062	5
17:15:30	6.1229	0.062	
17:15:40	6.1229	0.062	
17:15:50	6.1229	0.062	5.5
17:16:00	6.1285	0.0564	
17:16:10	6.1285	0.0564	
17:16:20	6.1285	0.0564	6
17:16:30	6.1285	0.0564	
17:16:40	6.1342	0.0507	
17:16:50	6.1342	0.0507	6.5
17:17:00	6.1342	0.0507	
17:17:10	6.1342	0.0507	
17:17:20	6.1285	0.0564	7.6
17:17:30	6.1398	0.0451	
17:17:40	6.1398	0.0451	
17:17:50	6.1398	0.0451	7.5
17:18:00	6.1454	0.0395	
17:18:10	6.1398	0.0451	
17:18:20	6.1454	0.0395	8.
17:18:30	6.1398	0.0451	
17:18:40	6.1454	0.0395	
17:18:50	6.1454	0.0395	8.5
17:19:00	6.1454	0.0395	
17:19:10	6.1454	0.0395	
17:19:20	6.1454	0.0395	9.0
17:19:30	6.1511	0.0338	
17:19:40	6.1454	0.0395	
17:19:50	6.1511	0.0338	9.5
17:20:00	6.1511	0.0338	
17:20:10	6.1454	0.0395	
17:20:20	6.1511	0.0338	10
-----		6.1849	

Step 3		6.1849	
Interval 00:00:30		6.1849	
Readings 40		6.1849	
-----		6.1849	
Time	Chnl 1	6.1849	
17:20:50	6.1511	0.0338	10.5
17:21:20	6.1511	0.0338	11
17:21:50	6.1567	0.0282	11.5
17:22:20	6.1567	0.0282	12
17:22:50	6.1567	0.0282	
17:23:20	6.1567	0.0282	13
17:23:50	6.1623	0.0226	13.5

$t_0 = 17:10:20$

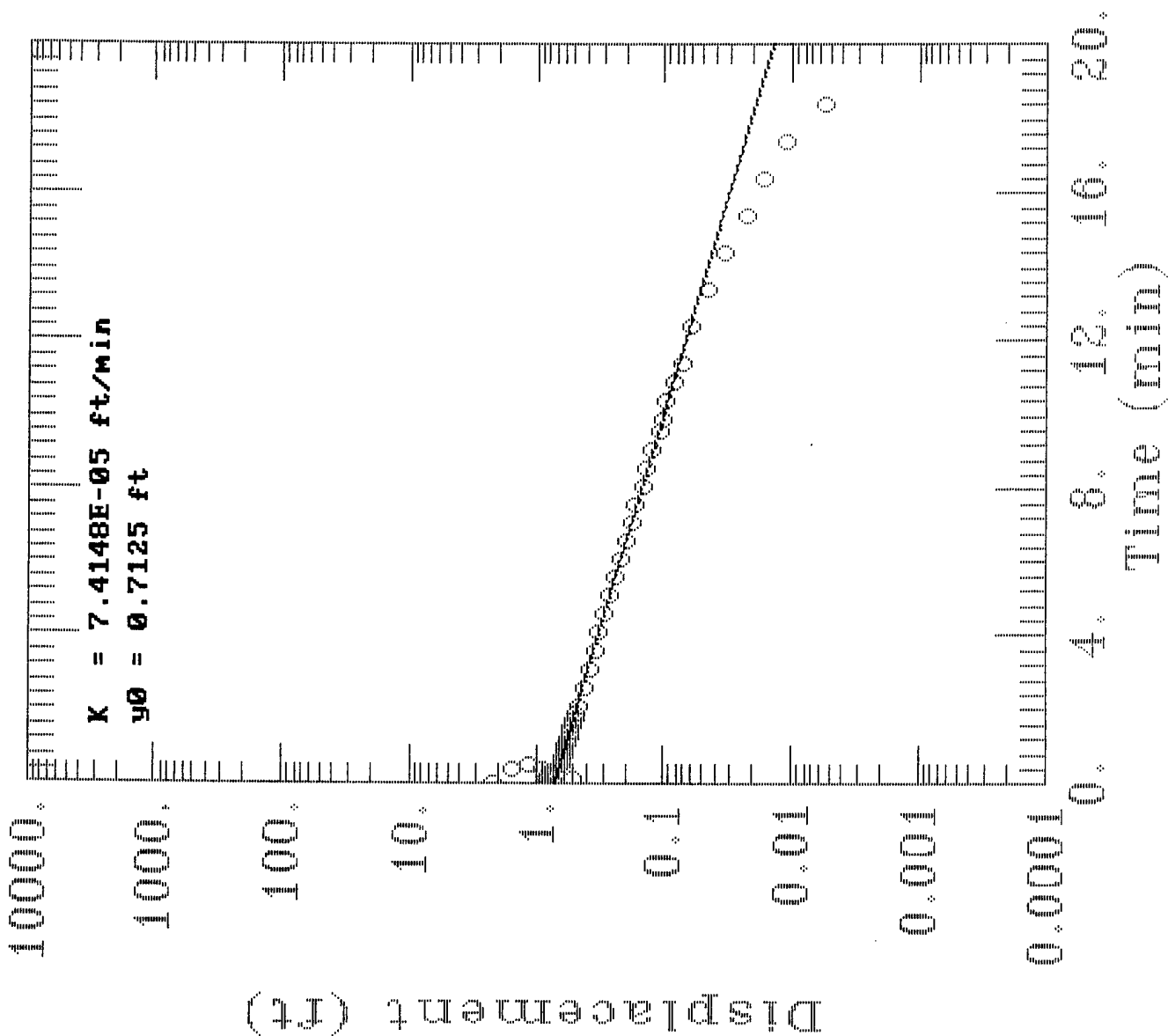
17:24:20	6.1623	0.0226	14
17:24:50	6.1623	0.0226	
17:25:20	6.1623	0.0226	15
17:25:50	6.168	0.0169	
17:26:20	6.168	0.0169	16
17:26:50	6.168	0.0169	
17:27:20	6.168	0.0169	17
17:27:50	6.1736	0.0113	
17:28:20	6.1736	0.0113	18
17:28:50	6.1736	0.0113	
17:29:20	6.1736	0.0113	19
17:29:50	6.1736	0.0113	
17:30:20	6.1736	0.0113	20
17:30:50	6.1736	0.0113	
17:31:20	6.1792	0.0057	21
17:31:50	6.1792	0.0057	
17:32:20	6.1792	0.0057	22

17:32:50	6.1792	0.0057	22.5
17:33:20	6.1792	0.0057	23
17:33:50	6.1792	0.0057	
17:34:20	6.1792	0.0057	24
17:34:50	6.1849	0	
17:35:20	6.1792	0.0057	25
17:35:50	6.1792	0.0057	
17:36:20	6.1849	0	26
17:36:50	6.1849	0	
17:37:20	6.1849	0	
17:37:50	6.1849	0	
17:38:20	6.1849	0	
17:38:50	6.1849	0	
17:39:20	6.1849	0	
Test 1 abted at		6.1849	

6.1849
6.1849
6.1849

17:21:20	6.1511	0.0338
17:21:50	6.1567	0.0282
17:22:20	6.1567	0.0282
17:22:50	6.1567	0.0282
17:23:20	6.1567	0.0282
17:23:50	6.1623	0.0226
17:24:20	6.1623	0.0226

SITE 1 MW1 SLUG IN/STEP TEST



SITE 1 MW1 SLUG IN STEP TEST

S/N SDEE-03A-SN-3230 Block 1

Program: STEP TEST

Readings:128

Start Tim15:15:42

Start Dat04/18

Range: 0010 PSI

Channels:1

Units: Ft-H2O

Step 1

Interval 00:00:02

Readings 60

Time	Chnl 1		
15:15:42	9.6322	-0.0169	
15:15:44	10.2290	0.5799	$t=0$
15:15:46	11.8740	2.2249	6.03
15:15:48	10.4600	0.8109	0.067
15:15:50	10.3920	0.7429	0.1
15:15:52	10.1720	0.5229	0.13
15:15:54	10.4320	0.7829	
15:15:56	10.4430	0.7939	0.2
15:15:58	10.4260	0.7769	6.23
15:16:00	10.4200	0.7709	
15:16:02	10.4150	0.7659	0.2
15:16:04	10.4030	0.7539	0.33
15:16:06	10.2850	0.6359	
15:16:08	11.1700	1.5209	0.4
15:16:10	10.5220	0.8729	0.43
15:16:12	10.2960	0.6469	
15:16:14	10.7750	1.1259	0.5
15:16:16	10.2680	0.6189	0.53
15:16:18	10.2910	0.6419	
15:16:20	10.2850	0.6359	6.6
15:16:22	10.2800	0.6309	6.63
15:16:24	10.2740	0.6249	
15:16:26	10.2740	0.6249	6.7
15:16:28	10.2680	0.6189	6.73
15:16:30	10.2630	0.6139	
15:16:32	10.2570	0.6079	6.8
15:16:34	10.2510	0.6019	6.83
15:16:36	10.2460	0.5969	
15:16:38	10.2400	0.5909	0.9
15:16:40	10.2400	0.5909	0.93
15:16:42	10.2340	0.5849	0.967

15:15:44=60

15:16:44	10.2290	0.5799	1.0
15:16:46	10.2290	0.5799	
15:16:48	10.2230	0.5739	
15:16:50	10.2180	0.5689	1.1
15:16:52	10.2120	0.5629	
15:16:54	10.2120	0.5629	
15:16:56	10.2060	0.5569	1.2
15:16:58	10.2010	0.5519	
15:17:00	10.2010	0.5519	
15:17:02	10.1950	0.5459	1.3
15:17:04	10.1950	0.5459	
15:17:06	10.1890	0.5399	
15:17:08	10.1890	0.5399	1.4
15:17:10	10.1840	0.5349	
15:17:12	10.1780	0.5289	
15:17:14	10.1780	0.5289	1.5
15:17:16	10.1720	0.5229	
15:17:18	10.1720	0.5229	
15:17:20	10.1670	0.5179	1.6
15:17:22	10.1610	0.5119	
15:17:24	10.1610	0.5119	
15:17:26	10.1560	0.5069	1.7
15:17:28	10.1500	0.5009	
15:17:30	10.1500	0.5009	
15:17:32	10.1440	0.4949	1.8
15:17:34	10.1440	0.4949	
15:17:36	10.1390	0.4899	
15:17:38	10.1330	0.4839	1.9
15:17:40	10.1330	0.4839	1.93
		-9.6491	

 Step 2 -9.6491
 Interval 00:00:10 -9.6491
 Readings 48 -9.6491

Time	Chnl 1		
15:17:50	10.1160	0.4669	2.1
15:18:00	10.0990	0.4499	
15:18:10	10.0880	0.4389	
15:18:20	10.0710	0.4219	2.6
15:18:30	10.0600	0.4109	
15:18:40	10.0430	0.3939	
15:18:50	10.0320	0.3829	3.1
15:19:00	10.0200	0.3709	
15:19:10	10.0090	0.3599	
15:19:20	9.9983	0.3492	3.6
15:19:30	9.9871	0.338	
15:19:40	9.9758	0.3267	
15:19:50	9.9702	0.3211	4.1
15:20:00	9.9533	0.3042	
15:20:10	9.9476	0.2985	
15:20:20	9.9364	0.2873	4.6
15:20:30	9.9307	0.2816	
15:20:40	9.9195	0.2704	
15:20:50	9.9138	0.2647	5.1
15:21:00	9.9026	0.2535	

15:21:10	9.8913	0.2422
15:21:20	9.8857	0.2366 5.6
15:21:30	9.8800	0.2309
15:21:40	9.8744	0.2253
15:21:50	9.8631	0.214 6.1
15:22:00	9.8631	0.214
15:22:10	9.8519	0.2028
15:22:20	9.8462	0.1971 6.6
15:22:30	9.8406	0.1915
15:22:40	9.8350	0.1859
15:22:50	9.8293	0.1802 7.1
15:23:00	9.8293	0.1802
15:23:10	9.8181	0.169
15:23:20	9.8181	0.169 7.6
15:23:30	9.8124	0.1633
15:23:40	9.8068	0.1577
15:23:50	9.7955	0.1464 8.1
15:24:00	9.7899	0.1408
15:24:10	9.7899	0.1408
15:24:20	9.7843	0.1352 8.6
15:24:30	9.7786	0.1295
15:24:40	9.7730	0.1239
15:24:50	9.7730	0.1239 9.1
15:25:00	9.7674	0.1183
15:25:10	9.7617	0.1126
15:25:20	9.7561	0.107 9.6
15:25:30	9.7561	0.107
15:25:40	9.7505	0.1014 9.933

----- -9.6491

Step 3 -9.6491

Interval 00:00:30 -9.6491

Readings 40 -9.6491

----- -9.6491

Time Chnl 1 -9.6491

15:26:10	9.7448	0.0957 10.433
15:26:40	9.7336	0.0845 10.933
15:27:10	9.7223	0.0732 11.433

15:27:40	9.7167	0.0676
15:28:10	9.7110	0.0619 12.433
15:28:40	9.6998	0.0507
15:29:10	9.6941	0.045 13.433
15:29:40	9.6885	0.0394
15:30:10	9.6829	0.0338 14.433
15:30:40	9.6772	0.0281
15:31:10	9.6716	0.0225 15.433
15:31:40	9.6716	0.0225
15:32:10	9.6660	0.0169 16.433
15:32:40	9.6604	0.0113
15:33:10	9.6604	0.0113 17.433
15:33:40	9.6604	0.0113
15:34:10	9.6547	0.0056 18.433
15:34:40	9.6547	0.0056

15:35:10 9.6491 0 19.433
15:35:40 9.6547 0.0056
Test 1 abted at -9.6491
-9.6491

SITE 1 MW1 SLUG IN STEP TEST

S/N SDEE-03A-SN-3230 Block 1

Program: STEP TEST

Readings:128

Start Tim15:15:42

Start Dat04/18

Range: 0010 PSI

Channels:1

Units: Ft-H2O

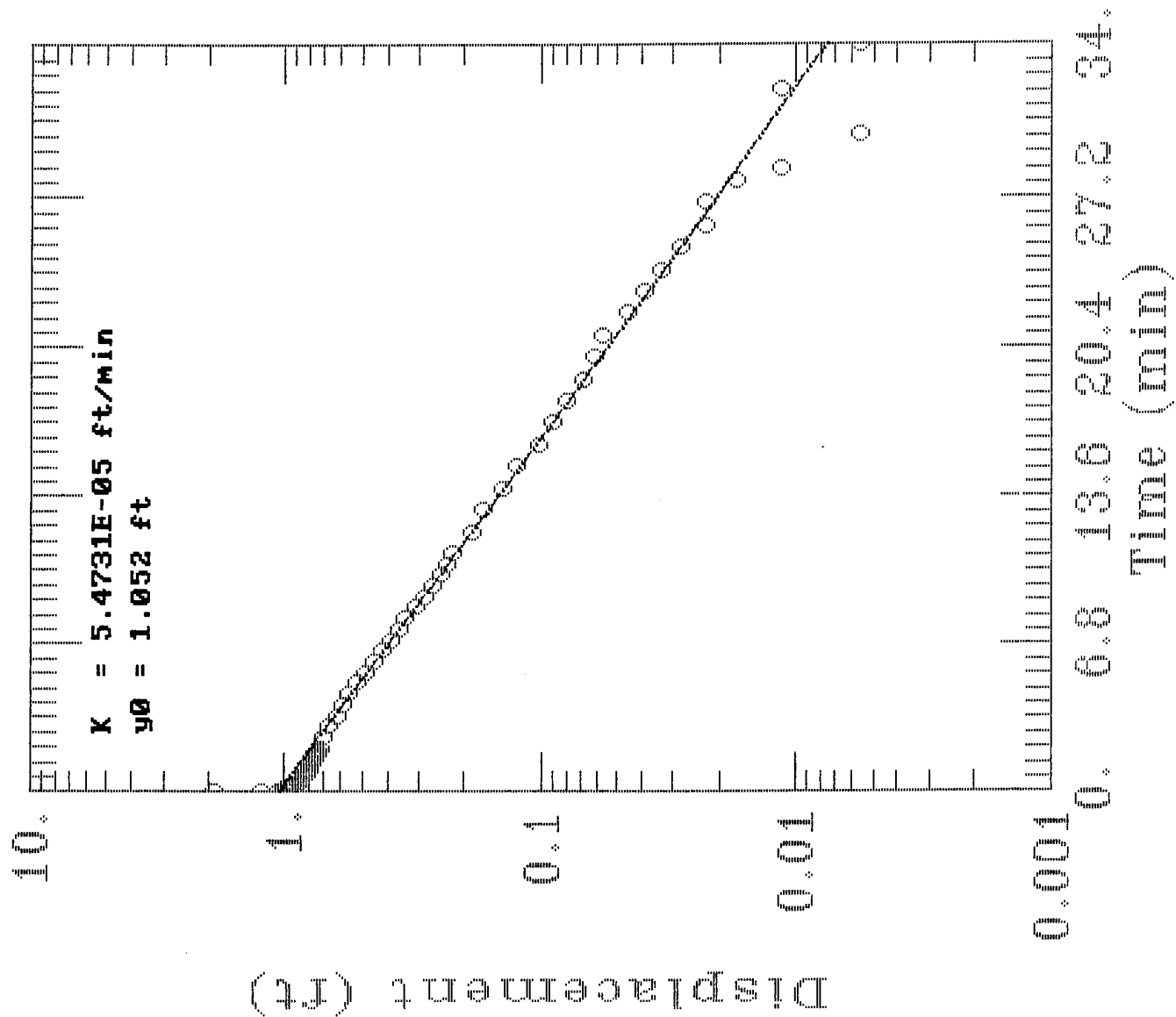
Step 1

Interval 00:00:02

Readings 60

Time	Chnl 1	
15:15:42	9.6322	-0.0169
15:15:44	10.2290	0.5799
15:15:46	11.8740	2.2249
15:15:48	10.4600	0.8109
15:15:50	10.3920	0.7429
15:15:52	10.1720	0.5229
15:15:54	10.4320	0.7829
15:15:56	10.4430	0.7939

SITE 1 MW1 SLUG OUT/STEP TEST



Readings 40 -9.6491
----- -9.6491

Time	Chnl 1	-9.6491
15:26:10	9.7448	0.0957
15:26:40	9.7336	0.0845
15:27:10	9.7223	0.0732
15:27:40	9.7167	0.0676
15:28:10	9.7110	0.0619
15:28:40	9.6998	0.0507
15:29:10	9.6941	0.045
15:29:40	9.6885	0.0394
15:30:10	9.6829	0.0338
15:30:40	9.6772	0.0281
15:31:10	9.6716	0.0225
15:31:40	9.6716	0.0225
15:32:10	9.6660	0.0169
15:32:40	9.6604	0.0113
15:33:10	9.6604	0.0113
15:33:40	9.6604	0.0113
15:34:10	9.6547	0.0056
15:34:40	9.6547	0.0056
15:35:10	9.6491	0
15:35:40	9.6547	0.0056

Test 1 abtd at -9.6491

SITE 1 MW1 SLUG OUT STEP TEST

S/N SDEE-03A-SN-3230 Block 1

Program: STEP TEST

Readings:152

Start Tim15:37:33

Start Dat04/18

Range: 0010 PSI

Channels:1

Units: Ft-H2O

Step 1

Interval 00:00:02

Readings 60

Time	Chnl 1		
15:37:33	8.3648	1.2167	0.103
15:37:35	8.4943	1.0872	0.067
15:37:37	8.5225	1.059	0.1
15:37:39	8.5676	1.0139	0.13
15:37:41	8.6014	0.9801	0.167
15:37:43	8.6183	0.9632	0.2
15:37:45	8.6295	0.952	0.23
15:37:47	8.6408	0.9407	0.267
15:37:49	8.6521	0.9294	0.3
15:37:51	8.6633	0.9182	0.33
15:37:53	8.6746	0.9069	0.367
15:37:55	8.6746	0.9069	0.4
15:37:57	8.6859	0.8956	0.43

15:37:59	8.7028	0.8787	1.07
15:38:01	8.7084	0.8731	0.5
15:38:03	8.7140	0.8675	0.53
15:38:05	8.7140	0.8675	0.567
15:38:07	8.7253	0.8562	0.6
15:38:09	8.7197	0.8618	0.63
15:38:11	8.7253	0.8562	
15:38:13	8.7366	0.8449	0.7
15:38:15	8.7366	0.8449	0.72
15:38:17	8.7422	0.8393	
15:38:19	8.7478	0.8337	0.8
15:38:21	8.7535	0.828	0.85
15:38:23	8.7535	0.828	
15:38:25	8.7591	0.8224	0.9
15:38:27	8.7647	0.8168	0.93
15:38:29	8.7647	0.8168	
15:38:31	8.7704	0.8111	1.0
15:38:33	8.7704	0.8111	1.03
15:38:35	8.7760	0.8055	
15:38:37	8.7816	0.7999	1.1
15:38:39	8.7816	0.7999	1.13
15:38:41	8.7873	0.7942	
15:38:43	8.7873	0.7942	1.2
15:38:45	8.7929	0.7886	1.23
15:38:47	8.7929	0.7886	
15:38:49	8.7985	0.783	1.3
15:38:51	8.7985	0.783	
15:38:53	8.8042	0.7773	
15:38:55	8.8042	0.7773	1.4
15:38:57	8.8098	0.7717	
15:38:59	8.8098	0.7717	
15:39:01	8.8154	0.7661	1.5
15:39:03	8.8154	0.7661	
15:39:05	8.8211	0.7604	
15:39:07	8.8211	0.7604	1.6
15:39:09	8.8211	0.7604	
15:39:11	8.8267	0.7548	

15:37:31 to

15:39:13	8.8267	0.7548	1.7
15:39:15	8.8323	0.7492	
15:39:17	8.8323	0.7492	
15:39:19	8.8379	0.7436	1.8
15:39:21	8.8379	0.7436	
15:39:23	8.8436	0.7379	
15:39:25	8.8436	0.7379	1.9
15:39:27	8.8436	0.7379	
15:39:29	8.8492	0.7323	
15:39:31	8.8492	0.7323	2.0
-----		9.5815	
Step 2		9.5815	
Interval 00:00:10		9.5815	
Readings 48		9.5815	
-----		9.5815	

Time	Chnl 1	9.5815
15:39:41	8.8605	0.721 2.167
15:39:51	8.8717	0.7098 2.33
15:40:01	8.8830	0.6985 2.5
15:40:11	8.8943	0.6872 2.667
15:40:21	8.9055	0.676
15:40:31	8.9168	0.6647 3.0
15:40:41	8.9281	0.6534
15:40:51	8.9393	0.6422
15:41:01	8.9506	0.6309 3.5
15:41:11	8.9562	0.6253
15:41:21	8.9675	0.614
15:41:31	8.9844	0.5971 4.0
15:41:41	8.9957	0.5858
15:41:51	9.0069	0.5746
15:42:01	9.0182	0.5633 4.5
15:42:11	9.0351	0.5464
15:42:21	9.0464	0.5351
15:42:31	9.0576	0.5239 5.0
15:42:41	9.0745	0.507
15:42:51	9.0858	0.4957
15:43:01	9.0971	0.4844 5.5
15:43:11	9.1083	0.4732
15:43:21	9.1196	0.4619
15:43:31	9.1365	0.445 6.0
15:43:41	9.1421	0.4394
15:43:51	9.1534	0.4281
15:44:01	9.1647	0.4168 6.5
15:44:11	9.1759	0.4056
15:44:21	9.1816	0.3999
15:44:31	9.1985	0.383 7.0
15:44:41	9.2041	0.3774
15:44:51	9.2210	0.3605
15:45:01	9.2266	0.3549 7.5
15:45:11	9.2323	0.3492
15:45:21	9.2435	0.338
15:45:31	9.2435	0.338 8.0
15:45:41	9.2548	0.3267
15:45:51	9.2604	0.3211
15:46:01	9.2717	0.3098 8.5
15:46:11	9.2829	0.2986
15:46:21	9.2886	0.2929
15:46:31	9.2942	0.2873 9.0
15:46:41	9.2998	0.2817
15:46:51	9.3111	0.2704
15:47:01	9.3167	0.2648 9.5
15:47:11	9.3167	0.2648
15:47:21	9.3280	0.2535
15:47:31	9.3336	0.2479 10

1537.31:20

----- 9.5815		
Time	Chnl 1	9.5815
15:48:01	9.3505	0.231 10.5
15:48:31	9.3618	0.2197 11
15:49:01	9.3787	0.2028
15:49:31	9.3956	0.1859 12
15:50:01	9.4069	0.1746

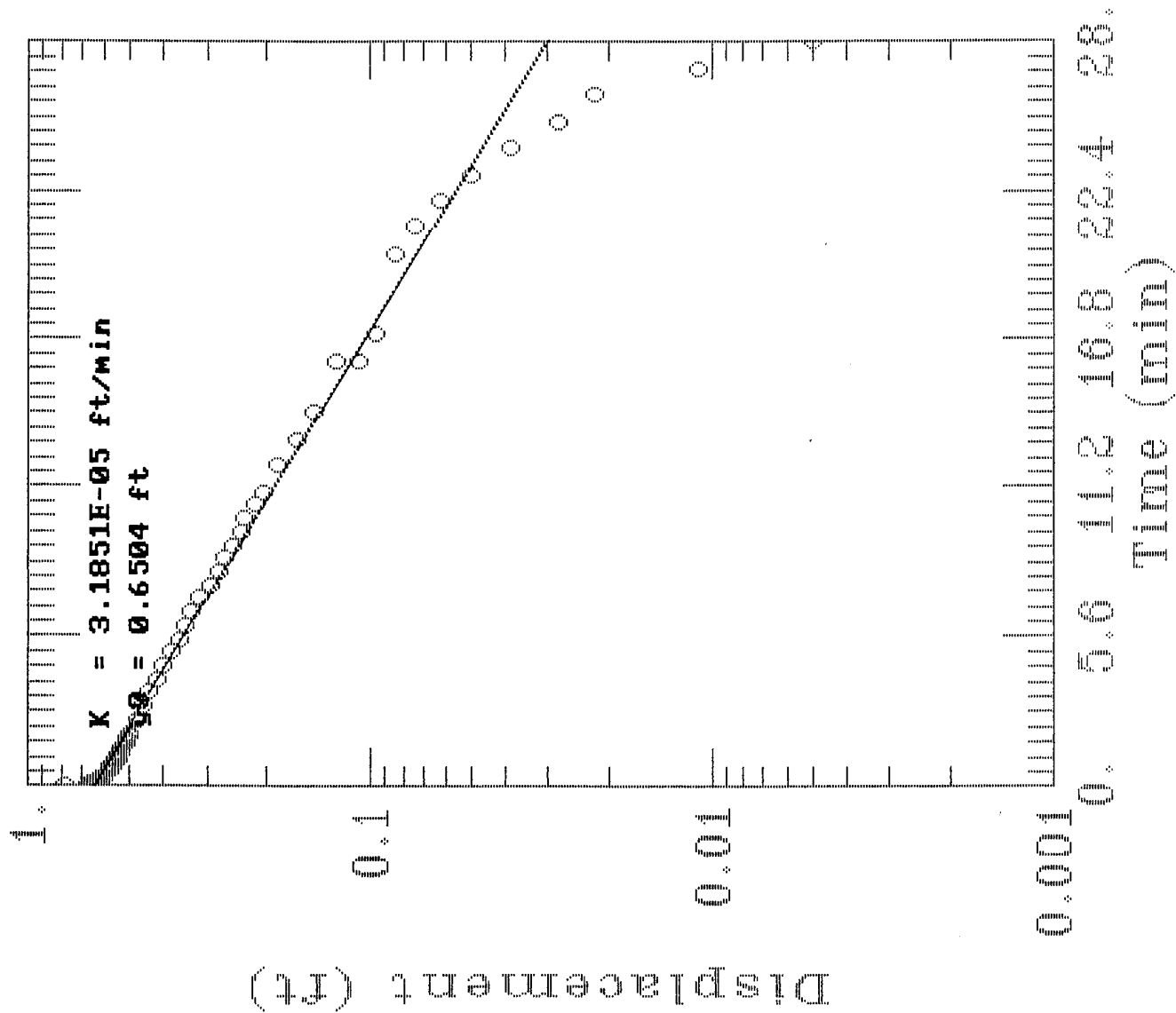
15:50:31	9.4125	0.169	13
15:51:01	9.4350	0.1465	
15:51:31	9.4407	0.1408	14
15:52:01	9.4519	0.1296	
15:52:31	9.4576	0.1239	15
15:53:01	9.4688	0.1127	
15:53:31	9.4801	0.1014	16
15:54:01	9.4857	0.0958	
15:54:31	9.4914	0.0901	17
15:55:01	9.4914	0.0901	
15:55:31	9.5026	0.0789	18
15:56:01	9.5083	0.0732	
15:56:31	9.5139	0.0676	19
15:57:01	9.5195	0.062	
15:57:31	9.5195	0.062	20
15:58:01	9.5252	0.0563	
15:58:31	9.5252	0.0563	21

15:59:01	9.5364	0.0451	
15:59:31	9.5364	0.0451	22
16:00:01	9.5364	0.0451	
16:00:31	9.5421	0.0394	23
16:01:01	9.5421	0.0394	
16:01:31	9.5477	0.0338	24
16:02:01	9.5533	0.0282	
16:02:31	9.5533	0.0282	25
16:03:01	9.5590	0.0225	
16:03:31	9.5590	0.0225	26
16:04:01	9.5646	0.0169 26.5	
16:04:31	9.5590	0.0225	27
16:05:01	9.5590	0.0225 27.5	
16:05:31	9.5646	0.0169	28
16:06:01	9.5702	0.0113	28.5
16:06:31	9.5646	0.0169	29
16:07:01	9.5702	0.0113	29.5
16:07:31	9.5759	0.0056	30

----- 9.5815
 Step 4 9.5815
 Interval 00:02:00 9.5815
 Readings 5 9.5815
 ----- 9.5815

Time	Chnl 1	9.5815	
16:09:31	9.5702	0.0113	32
16:11:31	9.5759	0.0056	34
16:13:31	9.5815	0	
16:15:31	9.5815	0	
Test 1 abted at	9.5815		
	9.5815		

BG2 SLUG OUT/STEP TEST



Appendix D: Boring Logs and Well Construction Forms

BOREHOLE/WELL CONSTRUCTION LOG

Project Name: Peoria Air National Guard - Peoria, IL

Project Number: 911655-05

Field Log of Borehole Number: PZ #1

Sheet 1 **of** 1

Borehole Location: <u>Facility</u>		Elevation and Datum: Land: <u>643.4'</u> Top: <u>643.10' (AMSL)</u>	
Drilling Agency: <u>Burlington</u>	Driller: <u>Tim Crank</u>	Date Started: <u>12/9/92</u>	Date Finished: <u>12/9/92</u>
Drilling Equipment: <u>CME 75</u>		Completion: Depth (feet): <u>15</u>	Rock Depth: (feet): <u>NA</u>
Method of Drilling: <u>Diedrich D50</u>		Number of Samples: <u>NA</u>	Dist.: <u>NA</u> Undist.: <u>NA</u> Core: <u>NA</u>
Borehole Size (inches): <u>6</u>		Water Depth (ft): <u>NA</u>	First: <u>6'</u> Compl.: <u>NA</u> 24 hrs. <u>NA</u>
Completion Information: <u>Installed piezometer.</u>		Logged By: <u>B Norton</u>	Checked By: <u>Pat Lay</u>

Depth (feet)	Samples			Field Analysis		Log			Description	Well Construction Diagram	Remarks	
	Number	Type	Blow Count	Drilling Time	PID (ppm) S/B*	FID (ppm) S/B*	Geologic Unit	Graphic				USCS or Rock Type
									AF?	0'; Grassy, with topsoil.		
									CL	1'; Clay; with some silt; stiff; medium plasticity; moist. (1'-6')		No samples collected. PIEZOMETER HOLE WAS STRAIGHT AUGERED.
5												
										6'; Clay; yellowish brown; with fine-grained sand; soft; medium plasticity; moist to wet. (6'-TD)		
10									CL			
									CL			
15												TD = 15'.

TD = 15'.

BOREHOLE/WELL CONSTRUCTION LOG

Project Name: Peoria Air National Guard - Peoria, IL

Project Number: 911655-05

Field Log of Borehole Number: PZ #2

Sheet 1 of 1

Borehole Location: <i>Facility</i>		Elevation and Datum: Land: <i>645.66'</i> Top: <i>645.66' (ARNSL)</i>			
Drilling Agency: <i>Burlington</i>	Driller: <i>Tim Crank</i>	Date Started: <i>12/9/92</i>		Date Finished: <i>12/9/92</i>	
Drilling Equipment: <i>CME 75</i>		Completion: Depth (feet) <i>15</i>		Rock Depth: (feet) <i>NA</i>	
Method of Drilling: <i>Hollow Stem Auger</i>		Number of Samples: <i>NA</i>	Dist.: <i>NA</i>	Undist.: <i>NA</i>	Core: <i>NA</i>
Borehole Size (inches): <i>6"</i>		Water Depth (ft): <i>NA</i>	First: <i>6'</i>	Compl.: <i>NA</i>	24 hrs. <i>NA</i>
Completion Information: <i>Installed piezometer.</i>		Logged By: <i>B Norton</i>		Checked By: <i>Pat Lay</i>	

Depth (feet)	Samples			Field Analysis		Log			Description	Well Construction Diagram	Remarks	
	Number	Type	Blow Count	Drilling Time	PID (ppm) S/B*	FID (ppm) S/B*	Geologic Unit	Graphic				USCS or Rock Type
0									AF?	0'; Grassy at surface, underlain by topsoil.		No samples collected. PIEZOMETER HOLE WAS STRAIGHT AUGERED
1									CL	1'; Clay; brown; with some silt and sand; stiff; moist. (1' - 5')		
5									CL	5'; Sandy Clay; yellowish brown; fine grained sand; with subrounded gravel; soft; moist. (5' - 15')		
10									CL			
15									CL			

BOREHOLE/WELL CONSTRUCTION LOG

Project Name: Peoria Air National Guard - Peoria, IL

Project Number: 911655-05

Field Log of Borehole Number: _____

PZ #3

Sheet 1 of 2

Borehole Location: <u>Facility</u>		Elevation and Datum: Land: <u>639.47'</u> Top: <u>638.97' (amsl)</u>	
Drilling Agency: <u>Burlington</u>	Driller: <u>Tim Crank</u>	Date Started: <u>12/9/92</u>	Date Finished: <u>12/9/92</u>
Drilling Equipment: <u>Diedrich D50</u>		Completion: <u>16</u> Depth (feet)	Rock Depth: (feet)
Method of Drilling: <u>Hollow Stem Auger</u>		Number of Samples: <u>NA</u>	Dist.: <u>NA</u> Undist.: <u>NA</u> Core: <u>NA</u>
Borehole Size (inches): <u>8"</u>		Water Depth (ft): <u>NA</u>	First: <u>7</u> Compl.: <u>NA</u> 24 hrs. <u>NA</u>
Completion Information: <u>Installed piezometer.</u>		Logged By: <u>B Norton</u>	Checked By: <u>Pat Lay</u>

Depth (feet)	Samples		Field Analysis		Log			Description	Well Construction Diagram	Remarks
	Number	Type	Blow Count	Drilling Time	PID (ppm) S/B*	FID (ppm) S/B*	Geologic Unit			



Project Name: Peoria Air National Guard - Peoria, IL

Project Number: 911655-05

Field Log of Borehole Number:

PZ #3

Sheet 2 of 2

[illegible]

BOREHOLE/WELL CONSTRUCTION LOG

Project Name: Peoria Air National Guard - Peoria, IL

Project Number: 911655-05

Field Log of Borehole Number: PZ #4

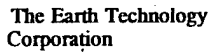
Sheet 1 **of** 1

Borehole Location: <u>Facility</u>		Elevation and Datum: Land: <u>640.06'</u> Top: <u>639.56' (AMSL)</u>	
Drilling Agency: <u>Burlington</u>	Driller: <u>Tim Crank</u>	Date Started: <u>12/9/92</u>	Date Finished: <u>12/9/92</u>
Drilling Equipment: <u>Diedrich D50</u>		Completion: <u>15</u>	Rock Depth: (feet)
Method of Drilling: <u>Hollow Stem Auger</u>		Number of Samples: <u>NA</u>	Dist.: <u>NA</u> Undist.: <u>NA</u> Core: <u>NA</u>
Borehole Size (inches): <u>8"</u>		Water Depth (ft): <u>NA</u>	First: <u>8</u> Compl.: <u>NA</u> 24 hrs. <u>NA</u>
Completion Information: <u>Installed piezometer.</u>		Logged By: <u>B Norton</u>	Checked By: <u>Pat Lay</u>

Depth (feet)	Samples		Field Analysis		Log			Description	Well Construction Diagram	Remarks
	Number	Type	Blow Count	Drilling Time	PID (ppm) S/B*	FID (ppm) S/B*	Geologic Unit			
0								0'; Concrete 12' thick.		
1								1'; Gravel. (1 - 2')		
2								2'; Clay; light brown; with fine sand. (2 - 6)		
5							AF			
6								6'; Clay; with silt. (6 - TD)		
10							CL			
15							CL			

Wet at 8.3'.

TD = 15'.



Year	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099
1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	

1

1. [REDACTED] 2. [REDACTED] 3. [REDACTED] 4. [REDACTED]

10
 9
 8
 7
 6
 5
 4
 3
 2
 1

BOREHOLE LOG

Project Name: *Peoria Air National Guard - Peoria, IL*

Project Number: 911655-05

Field Log of Borehole Number: 1SB2

Sheet 1 of 1

Borehole Location: <i>Site 1</i>		Elevation and Datum: Land: <i>644.8' AMSL</i> Top:			
Drilling Agency: <i>Burlington</i>	Driller: <i>Tim Crank</i>	Date Started: <i>12/10/92</i>	Date Finished: <i>12/10/92</i>		
Drilling Equipment: <i>Diedrich D50</i>		Completion: Depth (feet) <i>8.0</i>	Rock Depth: NA (feet)		
Method of Drilling: <i>Hollow Stem Auger</i>		Number of Samples: <i>3</i>	Dist.: NA	Undist.: NA	Core: NA
Borehole Size (inches): <i>6"</i>		Water Depth (ft): <i>6'</i>	First: NA	Compl.: NA	24 hrs. <i>NA</i>
Completion Information: <i>Grout to surface.</i>		Logged By: <i>BFN</i>		Checked By: <i>Dale Jayne</i>	

Depth (feet)	Samples			Field Analysis		Log			Description	Remarks
	Number	Type	Blow Count	PID (ppm) S/J/B*	FID (ppm) S/J/B*	Geologic Unit	Graphic	USCS or Rock Type		
0			0	2/0					0'; Asphalt; with gravel base.	All 8' drilled through artificial fill. Wet at 6' BGL.
6			6						1'; Clay; dark grey; with silt, wood and metal debris; stiff; moist. Artificial Fill.	
8			8						(1-3)	
5			5	3/0					3'; Clay; dark grey; with trace of silt and sand; moderate plasticity; soft.	
8			8						(3-6.5)	
9			9							
6			6							
3			3	0/0						
4			4							TD = 8'
3			3							
5			5							
2			2	0/0						
3			3							
6			6							
8			8							

BOREHOLE LOG

Project Name: Peoria Air National Guard - Peoria, IL

Project Number: 911655-05

Field Log of Borehole Number: 1SB3

Sheet 1 of .

Borehole Location: <i>Site 1</i>		Elevation and Datum: <i>Land: 646.4' AMSL</i> Top:	
Drilling Agency: <i>Burlington</i>	Driller: <i>Tim Crank</i>	Date Started: <i>12/10/92</i>	Date Finished: <i>12/10/92</i>
Drilling Equipment: <i>Diedrich D50</i>		Completion: <i>12.0</i> Depth (feet)	Rock Depth: <i>NA</i> (feet)
Method of Drilling: <i>Hollow Stem Auger</i>		Number of Samples: <i>5</i>	Dist.: <i>NA</i> Undist.: <i>NA</i> Core: <i>NA</i>
Borehole Size (inches): <i>6"</i>		Water Depth (ft): <i>10.0</i>	First: <i>NA</i> Compl.: <i>NA</i> 24 hrs. <i>NA</i>
Completion Information: <i>Grouted to surface.</i>		Logged By: <i>B Norton</i>	Checked By: <i>Dale Jayne</i>

[illegible]



BOREHOLE LOG

Project Name: Peoria Air National Guard - Peoria, IL

Project Number: 911655-05

Field Log of Borehole Number: 1SB4

Sheet 1 of 2

Borehole Location: <u>Site 1</u>		Elevation and Datum: Land: <u>645.7' AMSL</u> Top:	
Drilling Agency: <u>Burlington</u>	Driller: <u>Tim Crank</u>	Date Started: <u>12/12/92</u>	Date Finished: <u>12/12/92</u>
Drilling Equipment: <u>Diedrich D50</u>		Completion: <u>28.5'</u> Depth (feet)	Rock Depth: <u>29'</u> (feet)
Method of Drilling: <u>Hollow Stem Auger</u>		Number of Samples: <u>4</u>	Dist.: NA Undist.: NA Core: NA
Borehole Size (inches): <u>6"</u>		Water Depth (ft): <u>8.0</u>	First: NA Compl.: NA 24 hrs. NA
Completion Information: <u>Grouted to surface.</u>		Logged By: <u>B Norton</u>	Checked By: <u>Dale Jayne</u>

Depth (feet)	Samples		Field Analysis			Log			Description	Remarks			
	Number	Type	Blow Count	Drilling Time (% Retained)	PID (ppm)	S/J/B*	FID (ppm)	S/J/B*			Geologic Unit	Graphic	USCS or Rock Type
			0		8/0							0'; Asphalt; with gravel base.	
			5										
			7	50									
			10										
			4		4/0						AF		1'; Clay mixed with Gravel; dark grey to greyish brown; poorly sorted; soft to medium stiff; medium plasticity; moist. Artificial Fill. (1'-7.5')
			20										
			10	50									
			10										
			5		6/0								
			8										
			6	75									
			7										
			3		0/0								
			3										
			4	80									
			10										
			4		0/0								7.5'; Gravel; with sand; angular to subangular, well-sorted; loose; wet. (7.5-9')
			4										
			6	90									
			13										
			12										9'; Gravel grading to finer-grained. (9-12')
			4		90/0						AF		
			6										
			5	90									
			6										
			3		150/0								
			5										12'; Sandy Clay; yellowish brown, slightly mottled; sand fine grained; low plasticity; moist to wet. (12-14.3')
			6	90							CL		
			7										
			4		200/0								
			6										
			8	90									14.3'; Silty Clay; dark grey; with sand; trace of root hairs; soft; low to medium plasticity;

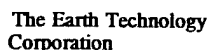


Project Name: Peoria Air National Guard - Peoria, IL

Field Log of Borehole Number: 1SB4

Sheet 2 of 2

D-10



Project Name: Peoria Air National Guard - Peoria, IL

Project Number: 911655-05

Field Log of Borehole Number: 1SB5

Sheet 1 of 1

Borehole Location: <i>Site 1</i>		Elevation and Datum: Land: <i>644.5' AMSL</i> Top:			
Drilling Agency: <i>Burlington</i>	Driller: <i>Tim Crank</i>	Date Started: <i>12/12/92</i>		Date Finished: <i>12/12/92</i>	
Drilling Equipment: <i>Diedrich D50</i>		Completion: Depth (feet) <i>10</i>		Rock Depth: (feet) <i>NA</i>	
Method of Drilling: <i>Hollow Stem Auger</i>		Number of Samples: <i>5</i>	Dist.: <i>NA</i>	Undist.: <i>NA</i>	Core: <i>NA</i>
Borehole Size (inches): <i>6"</i>		Water Depth (ft): <i>9.5'</i>	First: <i>10</i>	Compl.: <i>NA</i>	24 hrs. <i>NA</i>
Completion Information: <i>Grouted to surface.</i>		Logged By: <i>B Norton</i>		Checked By: <i>Dale Jayne</i>	

[illegible]



Project Name: *Peoria Air National Guard - Peoria, IL*

Project Number: 911655-05 Field Log of Borehole Number: 2SB1 Sheet 1 of 1

Borehole Location: <i>Site 2</i>		Elevation and Datum: Land: <i>643.8' AMSL</i> Top:	
Drilling Agency: <i>Burlington</i>	Driller: <i>Tim Crank</i>	Date Started: <i>12/8/92</i>	Date Finished: <i>12/8/92</i>
Drilling Equipment: <i>Diedrich D50</i>		Completion: Depth (feet) <i>12.0</i>	Rock Depth: NA (feet)
Method of Drilling: <i>Hollow Stem Auger</i>		Number of Samples: <i>2</i>	Dist.: NA Undist.: NA Core: NA
Borehole Size (inches): <i>6"</i>		Water Depth (ft): <i>8.0</i>	First: NA Compl.: NA 24 hrs. <i>NA</i>
Completion Information: <i>Grouted to surface.</i>		Logged By: <i>B Norton</i>	Checked By: <i>Pat Lay</i>

[illegible]

BOREHOLE LOG

Project Name: Peoria Air National Guard - Peoria, IL

Project Number: 911655-05

Field Log of Borehole Number:

2SB2

Sheet 1 of 2

Borehole Location: <i>Site 2</i>		Elevation and Datum: Land: <i>642.9' AMSL</i> Top:			
Drilling Agency: <i>Burlington</i>	Driller: <i>Tim Crank</i>	Date Started: <i>12/8/92</i>	Date Finished: <i>12/8/92</i>		
Drilling Equipment: <i>Diedrich D50</i>		Completion: Depth (feet) <i>29.5'</i>	Rock Depth: (feet) <i>29.5'</i>		
Method of Drilling: <i>Hollow Stem Auger</i>		Number of Samples: <i>3</i>	Dist.: NA	Undist.: NA	Core: NA
Borehole Size (inches): <i>6"</i>		Water Depth (ft): <i>10.0</i>	First: NA	Compl.: NA	24 hrs. <i>NO</i>
Completion Information: <i>Grouted to surface.</i>		Logged By: <i>B Norton</i>		Checked By: <i>Pat Lay</i>	

Depth (feet)	Samples		Field Analysis			Log			Description	Remarks		
	Number	Type	Blow Count	Drilling Time (min)	PID (ppm)	S/J/B*	FID (ppm)	S/J/B*			Geologic Unit	Graphic
0			7		0/0						0'; Grass with topsoil at surface. (0-2')	
2			7		0/0						2'; Clay; with trace of silt and sand; trace of root hairs, broken bricks, and metal; stiff; moist. (FILL 2'-5')	
4			10		0/0							
6			15		0/0							
8			70		0/0							
10			75		0/0							
12			75		0/0							
14			80		0/0							
16			90		0/0							
18			90		0/0							
20			90		0/0							



BOREHOLE LOG

Project Name: Peoria Air National Guard - Peoria, IL

Project Number: 911655-05 Field Log of Borehole Number: 2SB2 Sheet 2 of 2

Depth (feet)	Samples		Field Analysis			Log			Description	Remarks	
	Number	Type	Blow Count	Drilling Time Relay	FID (ppm) S/J/B*	PID (ppm) S/J/B*	Geologic Unit	Graphic			USCS or Rock Type
			8								
			2		0/0						
			2								
			5								
			11	95							
			3		0/0				CL		
			6								
			2								
			8	100							
20			7		0/0						
			8								
			10	50					CL		
			10								
			2		0/0						
			4								
			6	70							
			8								
			4		0/0						
			6								
25			10								
			14	70							
			8		0/0						
			10								
			10	70							
			24								
			20		0/0						
			50/4	100					CL		
30											TD = 29.5'. Auger refusal.



BOREHOLE LOG

Project Name: Peoria Air National Guard - Peoria, IL

Project Number: 911655-05

Field Log of Borehole Number: 2SB3

Sheet 1 of 1

Borehole Location: <u>Site 2</u>		Elevation and Datum: Land: <u>641.9' AMSL</u> Top:	
Drilling Agency: <u>Burlington</u>	Driller: <u>Tim Crank</u>	Date Started: <u>12/8/92</u>	Date Finished: <u>12/8/92</u>
Drilling Equipment: <u>Diedrich D50</u>		Completion: <u>12.0</u> Depth (feet)	Rock Depth: NA (feet)
Method of Drilling: <u>HSA</u>		Number of Samples: <u>2</u>	Dist.: NA Undist.: NA Core: NA
Borehole Size (inches): <u>6.25"</u>		Water Depth (ft): <u>8.0</u>	First: NA Compl.: NA 24 hrs. NA
Completion Information: <u>Grouted to surface</u>		Logged By: <u>BF NORTON</u>	Checked By: <u>DJ</u>

Depth (feet)	Samples		Field Analysis			Log			Description	Remarks		
	Number	Type	Blow Count	Drilling Time (min)	PID (ppm)	S/J/B*	FID (ppm)	S/J/B*			Geologic Unit	Graphic
			4								0'; Grass with topsoil. (0-1.5')	
			8	70								
			10								CL	1.5'; Clay; with trace of sand and root hairs; stiff; medium plasticity; moist. (1.5-6')
5			6									
			10									
			17	75								
			17									6'; Sandy Clay; yellowish brown; fine grained sand; soft to medium stiff; medium plasticity; moist to wet. (6-12')
10			2								CL	
			2	75								
			4									
			8									

Water at 8'.

TD = 12'.



BOREHOLE LOG

Project Name: Peoria Air National Guard - Peoria, IL

Project Number: 911655-05 Field Log of Borehole Number: 3ASB1 Sheet 1 of 1

Borehole Location: <u>Site 3A</u>		Elevation and Datum: Land: <u>646.4</u> Top:	
Drilling Agency: <u>Burlington</u>	Driller: <u>Tim Crank</u>	Date Started: <u>12/9/92</u>	Date Finished: <u>12/9/92</u>
Drilling Equipment: <u>Doedrich D50</u>		Completion: <u>12.0</u> Depth (feet)	Rock Depth: NA (feet)
Method of Drilling: <u>Hollow Stem Auger</u>		Number of Samples: <u>2</u>	Dist.: NA Undist.: NA Core: NA
Borehole Size (inches): <u>6"</u>		Water Depth (ft): <u>10.0</u>	First: NA Compl.: NA 24 hrs. NA
Completion Information: <u>Grouted to surface.</u>		Logged By: <u>B Norton</u>	Checked By: <u>Pat Lay</u>

Depth (feet)	Samples		Field Analysis		Log			Description	Remarks		
	Number	Type	Blow Count	Drilling Time (min)	PID (ppm) S/J/B*	FID (ppm) S/J/B*	Geologic Unit			Graphic	USCS or Rock Type
			3 8 8 7	50	0/0				AF	0'; Gravel. Artificial Fill.	
									CL	0.5'; Clay; dark brown; with trace of sand; stiff; moist. (0.5 - 2)	
										2'; Clay; slightly mottled yellowish brown; with trace of fine sand and fine, rounded gravel; medium plasticity. (2'-6')	
5			3 6 8 8	70	0/0					6'; Sandy Clay; yellowish brown; sand fine-grained; low to medium plasticity; soft; moist to wet. (6-12')	
10			3 7 7 8	80	0/0				CL		Water at 10'.
											TD = 12'.

BOREHOLE LOG



Project Name: Peoria Air National Guard - Peoria, IL

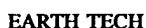
Project Number: 911655-05

Field Log of Borehole Number: 3BSB1

Sheet 1 of 1

Borehole Location: <u>Site 3B</u>		Elevation and Datum: Land: <u>645.5' AMSL</u> Top:	
Drilling Agency: <u>Burlington</u>	Driller: <u>Tim Crank</u>	Date Started: <u>12/8/92</u>	Date Finished: <u>12/8/92</u>
Drilling Equipment: <u>Diedrich D50</u>		Completion: <u>12.0</u> Depth (feet)	Rock Depth: NA (feet)
Method of Drilling: <u>Hollow Stem Auger</u>		Number of Samples: <u>2</u>	Dist.: NA Undist.: NA Core: NA
Borehole Size (inches): <u>6"</u>		Water Depth (ft): <u>9.0</u>	First: NA Compl.: NA 24 hrs. <u>NA</u>
Completion Information: <u>Grouted to surface.</u>		Logged By: <u>B Norton</u>	Checked By: <u>Pat Lay</u>

Depth (feet)	Samples		Field Analysis		Log			Description	Remarks		
	Number	Type	Blow Count	Drilling Time (min)	PID (ppm) S/J/B*	FID (ppm) S/J/B*	Geologic Unit			Graphic	USCS or Rock Type
			4 6 11 11	70	0/0				AF	0'; Grassy cover over topsoil.	Soil Cuttings ▽ WATER ~ 9'
									CL	1'; Clay; yellowish brown; with silt and trace of fine sand; stiff; medium plasticity; moist. (1-2')	
5			5 6 8 11	85	0/0					5'; Clay; with fine sand; soft to stiff; low to medium plasticity; moist. (5-8')	
										8'; Sandy Clay; yellowish brown; low plasticity. (8-12)	
10			6 11 5 9	90	0/0				CL	10'-12' as above	
											TD = 12'.



Project Name: Peoria Air National Guard - Peoria, IL

Project Number: 911655-05 **Field Log of Borehole Number:** 3BSB2 **Sheet** 1 **of** 1

Borehole Location: <i>Site 3B</i>		Elevation and Datum: Land: <i>645.2' AMSL</i> Top:	
Drilling Agency: <i>Burlington</i>	Driller: <i>Tim Crank</i>	Date Started: <i>12/8/92</i>	Date Finished: <i>12/8/92</i>
Drilling Equipment: <i>Diedrich D50</i>		Completion: Depth (feet) <i>12.0</i>	Rock Depth: NA (feet)
Method of Drilling: <i>Hollow Stem Auger</i>		Number of Samples: <i>3</i>	Dist.: NA Undist.: NA Core: NA
Borehole Size (inches): <i>6"</i>		Water Depth (ft): <i>7.0</i>	First: NA Compl.: NA 24 hrs. NA
Completion Information: <i>Grouted to surface.</i>		Logged By: <i>B Norton</i>	Checked By: <i>Pat Lay</i>

[illegible]



BOREHOLE LOG

Project Name: Peoria Air National Guard - Peoria, IL

Project Number: 911655-05

Field Log of Borehole Number: 3BSB3

Sheet 1 of 2

Borehole Location: <u>Site 3A</u>		Elevation and Datum: Land: <u>644.7' AMSL</u> Top:	
Drilling Agency: <u>Burlington</u>	Driller: <u>Tim Crank</u>	Date Started: <u>12/10/92</u>	Date Finished: <u>12/10/92</u>
Drilling Equipment: <u>Diedrich D50</u>		Completion: <u>28.0</u> Depth (feet)	Rock Depth: <u>27.5'</u> (feet)
Method of Drilling: <u>Hollow Stem Auger</u>		Number of Samples: <u>3</u>	Dist.: NA Undist.: NA Core: NA
Borehole Size (inches): <u>6"</u>		Water Depth (ft): <u>10.0</u>	First: NA Compl.: NA 24 hrs. <u>NA</u>
Completion Information: <u>Grouted to surface.</u>		Logged By: <u>B Norton</u>	Checked By: <u>Pat Lay</u>

Depth (feet)	Samples			Field Analysis		Log			Description	Remarks
	Number	Type	Blow Count Drilling Time p.c.c./c.f.	PID (ppm) S/J/B*	FID (ppm) S/J/B*	Geologic Unit	Graphic	USCS or Rock Type		
	3			0/0				AF	0'; Grassy, underlain by topsoil with root hairs and a few boulders. (0-2)	
	12									
	50		50							
	3			0/0					2'; Clay; yellowish brown; with silt and sand; stiff; medium plasticity; moist. (2-6.5')	Possibly Fill from 0' to 6.5'.
	10									
	16		70							
	50									
	3			4/0				AF?		
	6									
5	10									
	18		60							
	7			0/0					6.5'; Clay; dark blueish grey; trace of silt; plastic; stiff; moist. (6.5-10')	SAND % INCREASES WITH DEPTH (6.5-10)
	10									
	15		80					CL		
	19									
	4			0/0						
	10									
	17		100							
	12									
10	4			0/0					10'; Sandy Clay/Clayey Sand; grey to greyish brown; sand is fine-grained; soft; low plasticity; moist to wet. (10-13')	Water at 10'.
	8									
	6		90					CL		
	4									
	4			0/0						
	9									
	9		85							
	12							SC	13'; Clayey Sand; mottled; with small angular shale fragments; moist to wet.	
	3			0/0					14'; Sandy Clay/Clayey Sand; brownish grey to grey; stiff; low to medium plasticity; moist. (14-17')	CLAY CONTENT INCREASES WITH DEPTH (14-17)
	6									
15	11		80							

BOREHOLE LOG

Project Name: Peoria Air National Guard - Peoria, IL

Project Number: 911655-05

Field Log of Borehole Number: 3BSB3

Sheet 2 of 2

[illegible]



Project Name: Peoria Air National Guard - Peoria, IL

Sheet 1 of 1

Borehole Location: <i>Site 3C</i>		Elevation and Datum: Land: <i>643.1' AMSL</i> Top:	
Drilling Agency: <i>Burlington</i>	Driller: <i>Tim Crank</i>	Date Started: <i>1/15/93</i>	Date Finished: <i>1/15/93</i>
Drilling Equipment: <i>CME 75</i>		Completion: Depth (feet) <i>8.0</i>	Rock Depth: NA (feet)
Method of Drilling: <i>Hollow Stem Auger</i>		Number of Samples: <i>2</i>	Dist.: NA
Borehole Size (inches): <i>6"</i>		Water Depth (ft): <i>7.8</i>	First: NA
Completion Information: <i>Grouted at surface.</i>		Logged By: <i>B Norton</i>	Checked By: <i>Dale Jayne</i>

[illegible]



Project Name: Peoria Air National Guard - Peoria, IL

Field Log of Borehole Number: 3CSB2

Sheet 1 of

Borehole Location: <i>Site 3C</i>		Elevation and Datum: Land: <i>642.8</i> Top:	
Drilling Agency: <i>Burlington</i>	Driller: <i>Tim Crank</i>	Date Started: <i>1/15/93</i>	Date Finished: <i>1/15/93</i>
Drilling Equipment: <i>CME 75</i>		Completion: Depth (feet) <i>6.0</i>	Rock Depth: NA (feet)
Method of Drilling: <i>Hollow Stem Auger</i>		Number of Samples: <i>2</i>	Dist.: NA Undist.: NA Core: NA
Borehole Size (inches): <i>10"</i>		Water Depth (ft): <i>5</i>	First: NA Compl.: NA 24 hrs. NA
Completion Information: <i>Grouted to surface.</i>		Logged By: <i>Pat Lay</i>	Checked By: <i>Dale Jayne</i>

Depth (feet)	Samples		Field Analysis		Log			Description	Remarks	
	Number	Type	Blow Count	Drilling Time (min)	PID (ppm) S/J/B*	FID (ppm) S/J/B*	Geologic Unit			Graphic
0									0'; Concrete slab 1' thick.	12" of concrete with rebar.
1									1'; Gravel base for concrete. (1-2)	
2			8		0/0				2'; Sand and Gravel; light to dark brown; well-graded; moist. Artificial Fill to 3.5'. (2-3.5)	
3			13							
4			6							
5			5							
6			3		0/0				3.5'; Clay; light brown to brown; medium stiff; moist.	TD = 6'.
7			4						4'; Clay; light brown to olive grey; fine-grained, well-sorted; soft; moist to very moist.	
8			3							
9			3							
10			3							



Project Name: Peoria Air National Guard - Peoria, IL

Sheet 1 **of** 1

[illegible]

BOREHOLE LOG

Project Name: Peoria Air National Guard - Peoria, IL

Project Number: 911655-05

Field Log of Borehole Number: 3CSB4Sheet 1 of 1

Borehole Location: <i>Site 3C</i>		Elevation and Datum: <i>Land: 640.9' AMSL</i> Top:	
Drilling Agency: <i>Burlington</i>	Driller: <i>Tim Crank</i>	Date Started: <i>1/16/93</i>	Date Finished: <i>1/16/93</i>
Drilling Equipment: <i>CME 75</i>		Completion: Depth (feet) <i>12.0</i>	Rock Depth: NA (feet)
Method of Drilling: <i>Hollow Stem Auger</i>		Number of Samples: <i>2</i>	Dist.: NA Undist.: NA Core: NA
Borehole Size (inches): <i>10"</i>		Water Depth (ft): <i>8.0</i>	First: NA Compl.: NA 24 hrs. NA
Completion Information: <i>Grouted to surface.</i>		Logged By: <i>B Norton</i>	Checked By: <i>Dale Jayne</i>

[illegible]

BOREHOLE/WELL CONSTRUCTION LOG

Project Name: Peoria Air National Guard - Peoria, IL

Project Number: 911655-05

Field Log of Borehole Number: S1-MW1

Sheet 1 of 1

Borehole Location: <i>Site 1</i>		Elevation and Datum:		Land: <i>643.4' (AMSL)</i> Top: <i>642.43'</i>	
Drilling Agency: <i>Burlington</i>	Driller: <i>Tim Crank</i>	Date Started: <i>1/17/93</i>		Date Finished: <i>1/17/93</i>	
Drilling Equipment: <i>CME 75</i>		Completion: Depth (feet) <i>14</i>		Rock Depth: (feet) <i>N/A</i>	
Method of Drilling: <i>Hollow Stem Auger</i>		Number of Samples: <i>2</i>	Dist.: <i>NA</i>	Undist.: <i>NA</i>	Core: <i>NA</i>
Borehole Size (inches): <i>12"</i>		Water Depth (ft): <i>NA</i>	First: <i>5</i>	Compl.: <i>NA</i>	24 hrs. <i>5</i>
Completion Information: <i>COMPLETED AS MONITORING WELL</i>		Logged By: <i>B Norton</i>		Checked By: <i>Dale Jayne</i>	

[illegible]

BOREHOLE/WELL CONSTRUCTION LOG

Project Name: Peoria Air National Guard - Peoria, IL

Project Number: 911655-05

Field Log of Borehole Number: 3A-MW1

Sheet 1 of 1

Borehole Location: <i>Site 3A</i>		Elevation and Datum: <i>Land: 646.0 Top: 645.4' (AMSL)</i>	
Drilling Agency: <i>Burlington</i>	Driller: <i>Tim Crank</i>	Date Started: <i>1/17/93</i>	Date Finished: <i>1/17/93</i>
Drilling Equipment: <i>CME 75</i>		Completion: Depth (feet) <i>14</i>	Rock Depth: (feet) <i>NA</i>
Method of Drilling: <i>Hollow Stem Auger</i>		Number of Samples: <i>NA</i>	Dist.: <i>NA</i> Undist.: <i>NA</i> Core: <i>NA</i>
Borehole Size (inches): <i>12"</i>		Water Depth (ft): <i>NA</i>	First: <i>5</i> Compl.: <i>NA</i> 24 hrs. <i>5</i>
Completion Information: <i>Completed as Monitor W.</i>		Logged By: <i>B Norton</i>	Checked By: <i>Dale Jayne</i>

[illegible]

BOREHOLE/WELL CONSTRUCTION LOG

Project Name: Peoria Air National Guard - Peoria, IL

Project Number: 911655-05

Field Log of Borehole Number: 3B-MW1

Sheet 1 of 1

Borehole Location: <u>Site 3B</u>		Elevation and Datum: Land: <u>645.0</u> Top: <u>644.47' (AMSL)</u>	
Drilling Agency: <u>Burlington</u>	Driller: <u>Tim Crank</u>	Date Started: <u>1/16/93</u>	Date Finished: <u>1/16/93</u>
Drilling Equipment: <u>CME 75</u>		Completion: <u>14</u> Depth (feet)	Rock Depth: (feet) <u>NA</u>
Method of Drilling: <u>Hollow Stem Auger</u>		Number of Samples: <u>NA</u>	Dist.: <u>NA</u> Undist.: <u>NA</u> Core: <u>NA</u>
Borehole Size (inches): <u>12"</u>		Water Depth (ft): <u>NA</u>	First: <u>5</u> Compl.: <u>NA</u> 24 hrs. <u>5</u>
Completion Information: <u>Completed as Monitor W.</u>		Logged By: <u>B Norton</u>	Checked By: <u>Dale Jayne</u>

Depth (feet)	Samples		Field Analysis		Log			Description	Well Construction Diagram	Remarks		
	Number	Type	Blow Count	Drilling Time	PID (ppm) S/B*	FID (ppm) S/B*	Geologic Unit				Graphic	USCS or Rock Type
				% REC					AF	0'; Concrete, underlain by sand and gravel Fill to 2'		Concrete slab 1' thick.
									AF?	2'; Clay; blueish grey; medium stiff; plastic; moist. Possible Artificial Fill. (2-3)		
										3'; Clay; brown to rust brown, slightly mottled; trace of sand; stiff to soft; (3-5.5)		
5			2 3 5 7	50%	0/0				CL	5.5'; Sandy Clay; brown to greyish brown; sand fine-grained; soft; medium plasticity; moist to wet. (5.5-8)		Wet at 4.5'.
										8'; Sandy Clay/Clayey Sand; yellowish brown; sand fine-grained; soft; wet. (8-10)		
10			1 2 2 2	75%	0/0				CL			
												TD = 14'.



BOREHOLE/WELL CONSTRUCTION LOG

Project Name: Peoria Air National Guard - Peoria, IL

Project Number: 911655-05

Field Log of Borehole Number: BG-MW1

Sheet 1 of 2

Borehole Location: <i>Facility Background</i>		Elevation and Datum: Land: <i>647.9' (AMSL)</i> Top: <i>647.35'</i>	
Drilling Agency: <i>Burlington</i>	Driller: <i>Tim Crank</i>	Date Started: <i>12/13/92</i>	Date Finished: <i>12/13/92</i>
Drilling Equipment: <i>Diedrich D50</i>		Completion: Depth (feet) <i>17</i>	Rock Depth: (feet) <i>NA</i>
Method of Drilling: <i>Hollow Stem Auger</i>		Number of Samples: <i>NA</i>	Dist.: <i>NA</i> Undist.: <i>NA</i> Core: <i>NA</i>
Borehole Size (inches): <i>8"</i>		Water Depth (ft): <i>NA</i>	First: <i>9</i> Compl.: <i>NA</i> 24 hrs. <i>9</i>
Completion Information: <i>Installed Monitoring W.</i>		Logged By: <i>B Norton</i>	Checked By: <i>Pat Lay</i>

Depth (feet)	Samples		Field Analysis		Log			Description	Well Construction Diagram	Remarks	
	Number	Type	Blow Count	Drilling Time (% recovery)	PID (ppm) S/B*	FID (ppm) S/B*	Geologic Unit				Graphic
0			0		0/0			AF	0'; Asphalt, with gravel and sand base to 2'.		
5			5								
8			8	70							
10			10		0/0			CL	2'; Clay; yellowish brown; with silt and trace of fine sand; soft to medium stiff; medium plasticity; moist.		2" casing installed.
15			15	80							
5			4		0/0				4.5'; Silty Clay; with trace of sand; soft; medium to high plasticity; moist.		
6			6						(4.5-8')		
7			7	85							
9			9		0/0						
10			10	90							
15			15		0/0						
20			20		0/0				8'; Sandy Clay; mottled yellowish brown and greyish brown; soft; low plasticity; moist to wet.		Water at 9'.
25			25	90				CL			
30			30		0/0				10'; Same as above, but wet.		
35			35	70					(10-15)		
40			40								
45			45								
50			50								
55			55								
60			60								
65			65								
70			70								
75			75								
80			80								
85			85								
90			90								
95			95								
100			100								

BOREHOLE/WELL CONSTRUCTION LOG

Project Name: Peoria Air National Guard - Peoria, IL

Project Number: 911655-05

Field Log of Borehole Number: BG-MW2

Sheet 1 **of** 1

Borehole Location: <u>Background</u>		Elevation and Datum: Land: <u>647.9'</u> Top: <u>647.36' (AMSL)</u>	
Drilling Agency: <u>Burlington</u>	Driller: <u>Tim Crank</u>	Date Started: <u>1/19/93</u>	Date Finished: <u>1/19/93</u>
Drilling Equipment: <u>CME 75</u>		Completion: <u>15</u>	Rock Depth: (feet) <u>NA</u>
Method of Drilling: <u>Hollow Stem Auger</u>		Number of Samples: <u>NA</u>	Dist.: <u>NA</u>
Borehole Size (inches): <u>6"</u>		Water Depth (ft): <u>NA</u>	First: <u>6</u>
Completion Information: <u>Monitoring Well BG-MW2</u>		Logged By: <u>B Norton</u>	Checked By: <u>Dale Jayne</u>

Depth (feet)	Samples		Field Analysis		Log			Description	Well Construction Diagram	Remarks
	Number	Type	Blow Count	Grain Size %	PID (ppm) S/B*	FID (ppm) S/B*	Geologic Unit			
0'					0/0			0' to 0.5'; Asphalt cover.		
0.5'								0.5'; Gravel; poorly sorted, mixed with sand and silt(?). Asphalt base.		
2'					0/0			2'; Clay; orange brown, slightly mottled; trace of sand; soft and plastic, moist.		2" casing installed.
3.5'					0/0			3.5'; Clay; light brown to olive grey; trace of silt and sand; medium stiff and medium soft; moist to wet.		No lab analyses on any samples.
8'								(3.5 - 8')		
6'					0/0					Water at 6'.
10'								10'; Grades to Sandy Clay/Clayey Sand		Sand % increases with depth. per cuttings
15'										TD = 15.2'.



Project Name: Peoria Air National Guard - Peoria, IL

Project Number: 911655-05

Field Log of Borehole Number: BG-MW1

Sheet 2 of 2

Depth (feet)	Samples			Field Analysis		Log			Description	Well Construction Diagram	Remarks
	Number	Type	Blow Count	PID (ppm) S/B*	FID (ppm) S/B*	Geologic Unit	Graphic	USCS or Rock Type			
								CL			TD = 17'.

BOREHOLE/WELL CONSTRUCTION LOG

Project Name: Peoria Air National Guard - Peoria, IL

Project Number: 911655-05

Field Log of Borehole Number: 3C-MW1

Sheet 1 of 1

Borehole Location: <u>Site 3C</u>		Elevation and Datum: Land: _____ Top: _____	
Drilling Agency: <u>Burlington</u>	Driller: <u>Tim Crank</u>	Date Started: <u>1/16/93</u>	Date Finished: <u>1/16/93</u>
Drilling Equipment: <u>CME 75</u>		Completion: <u>14</u> Depth (feet)	Rock Depth: _____ (feet)
Method of Drilling: <u>Hollow Stem Auger</u>		Number of Samples: <u>NA</u>	Dist.: <u>NA</u> Undist.: <u>NA</u> Core: <u>NA</u>
Borehole Size (inches): <u>12</u>		Water Depth (ft): <u>NA</u>	First: <u>4</u> Compl.: <u>NA</u> 24 hrs. <u>4</u>
Completion Information: <u>Completed as Monitor W.</u>		Logged By: <u>B Norton</u>	Checked By: <u>Dale Jayne</u>

Depth (feet)	Samples		Field Analysis	Log			Description	Well Construction Diagram	Remarks
	Number	Type		PID (ppm) S/B*	FID (ppm) S/B*	Geologic Unit			
							0'; Concrete to 1'.		
						AF	1'; Gravel and Sand; well-graded. WITH FINES (1-3)		
							3'; Clay; yellowish brown to brown; with some sand; with concretions; plastic; moist to wet. (3-8)		Saturated at 3.5'.
5						CL	Grading to sandier with depth.		
			0/0				8'; Clayey Sand; greyish brown; sand fine-grained; low plasticity; soft; wet. (8-14)		
10						SC			
15									TD = 14'.

Appendix D: Boring Logs and Well Construction Forms

Monitoring Well Construction Log - Flush Mount

Project Name: <u>Peoria ANG</u>	Project Number: <u>911655-03</u>	Date: <u>12-9-92</u>
Well: <u>Piezometer #1</u>	Well ID: <u>P2#1</u>	Sheet <u>1</u> of <u>1</u>
Driller: <u>Tim Crank</u>	Borehole Diameter (in): <u>6"</u>	Total Depth (ft): <u>15'</u>
Drilling Agency: <u>Burlington</u>	Date Started: <u>12-9-92</u>	Depth to Water (ft): <u>6' (2.69' B)</u>
Drilling Equipment: <u>Diedrich D50</u>	Date Finished: <u>12-9-92</u>	Elevation and Datum: <u>810.5 - 643.10'</u>
Drilling Method: <u>4 1/4 ID. H.S. Augers</u>	Logged by: <u>BFAI</u>	Checked by: <u>PIL</u>
Drilling Fluid: <u>N/A</u>	Number of Samples: _____	Date: <u>3-17-93</u>

PROTECTIVE CSG

Material / Type: Christy Box

Diameter: _____

Depth BGS: _____ Weep Hole (Y/N) _____

GUARD POSTS (Y/N)

No.: _____ Type: _____

SURFACE PAD

Composition and Size: concrete 2x2

RISER PIPE

Type: PVC

Diameter: 2-inch

Total Length (TOC to TOS): 4.8'

Ventilated Cap (Y/N) _____

GROUT

Composition and Proportions: concrete

Tremied (Y/N) _____

Interval BGS: 0.3' - 2'

CENTRALIZERS

Depth(s): _____

SEAL

Type: Bentonite

Source: _____

Setup / Hydration Time: 1hr Vol. Fluid Added: 5.25 gal

Tremied (Y/N) _____

FILTER PACK

Type: silica sand

Amt. Used: 6 bags

Tremied (Y/N) _____

Source: _____

Gr. Size Dist: 20/40

SCREEN

Type: PVC

Diameter: 2-inch

Slot Size and Type: 0.010

Interval BGS: 5-15

WELL FOOT (Y/N)

Interval BGS: _____ Length: _____

Bottom Cap (Y/N) _____

BACKFILL PLUG

Material: _____

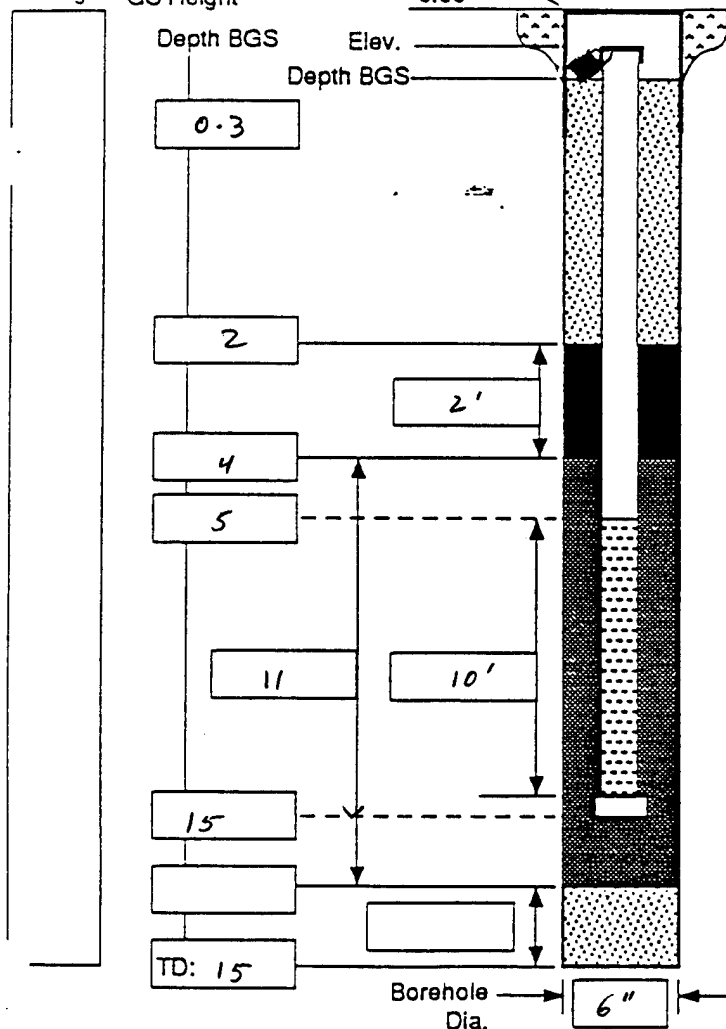
Setup / Hydration Time: _____

Tremied (Y/N) _____

Form F-1023

9/1/91

Geologic



Project Name: <u>Peoria ANG</u>						Project Number: <u>911655-03</u>			
Borehole Location: <u>FACILITY</u>						Borehole No. <u>Piezometer #1</u>		Sheet 1 of 1	
Drilling Agency: <u>Burlington</u>						Driller: <u>Tim Crank</u>			
Drilling Equipment: <u>Diedrich D50</u>						Date Started: <u>12-9-92</u>		Total Depth (feet): <u>15</u>	
Drilling Method: <u>4 1/4 ID H.S. Augers</u>						Date Finished: <u>12-9-92</u>		Depth to Bedrock (feet): <u>N/A</u>	
Drilling Fluid <u>N/A</u>						Number of Samples: <u>N/A</u>		Depth to Water (feet): <u>6 1/2 (2.69' 370 C 1-21-93)</u>	
Completion Information: <u>Borehole completed as Piezometer #1</u>						Borehole Diameter (in): <u>6"</u>		Elevation <u>→ 643.4' 63</u> and Datum: <u>643.10' TOC</u>	
						Logged by: <u>BFM</u>			
						Checked by: <u>PHL</u>		Date: <u>3-17-93</u>	

Depth (feet)	Sample				Field Analysis		LOG		Lithologic Description	Remarks
	Number	Interval	Blow Count	Recovery	Time	FID (ppm) S/B	PID (ppm) S/B	Graphic		
0									Grass w/ topsoil 0-0.8	
5									Clay w/ some silt, moist stiff, medium plasticity 0.8-6.0	
10									Clay w/ sand, fine grained moist to wet, soft medium plasticity yellowish brown 6-15	
15									TD=15'	
20										
25										
30										

Key

* S/B = Sample reading / background reading;

NA = not analyzed

Form F-1009
9/1/91

Monitoring Well Construction Log - Flush Mount

Project Name: <u>Peoria ANG</u>	Project Number: <u>911655-03</u>	Date: <u>12-9-92</u>
Well: <u>Piezometer #2</u>	Well ID: <u>P 2#2</u>	Sheet <u>1</u> of <u>1</u>
Driller: <u>Tim Clark</u>	Borehole Diameter (in): <u>6"</u>	Total Depth (ft): <u>15</u>
Drilling Agency: <u>Burlington</u>	Date Started: <u>12-9-92</u>	Depth to Water (ft): <u>3.84'</u> <u>611-21-92</u>
Drilling Equipment: <u>Diedrich D-50</u>	Date Finished: <u>12-9-92</u>	Elevation and Datum: <u>645.46</u> <u>7Toc 645.06</u>
Drilling Method: <u>1 1/4 I.D. H.S Augers</u>	Logged by: <u>BFN</u>	Checked by: <u>JAL</u>
Drilling Fluid: <u>N/A</u>	Number of Samples: <u>—</u>	Date: <u>3-17-93</u>

PROTECTIVE CSQ

Material / Type: christy box

Diameter: 6"

Depth BGS: _____ Weep Hole (Y/N)

GUARD POSTS (Y/N)

No.: _____ Type: _____

SURFACE PAD

Composition and Size: concrete 2x2

RISER PIPE

Type: PVC

Diameter: 2-inch

Total Length (TOC to TOS): 4.6

Ventilated Cap (Y/N)

GROUT

Composition and Proportions: cement / Bentonite

Tremied (Y/N)

Interval BGS: _____

CENTRALIZERS (N/A)

Depth(s): _____

SEAL

Type: Bentonite

Source: _____

Setup / Hydration Time: 1hr Vol. Fluid Added 5gals

Tremied (Y/N)

FILTER PACK

Type: 20/40 silica sand

Amt. Used: ~6 bags

Tremied (Y/N)

Source: _____

Gr. Size Dist: 20/40

SCREEN

Type: PVC

Diameter: 2-inch

Slot Size and Type: 0.010

Interval BGS: 5-15

WELL FOOT (Y/N)

Interval BGS: _____ Length: _____

Bottom Cap (Y/N)

BACKFILL PLUG

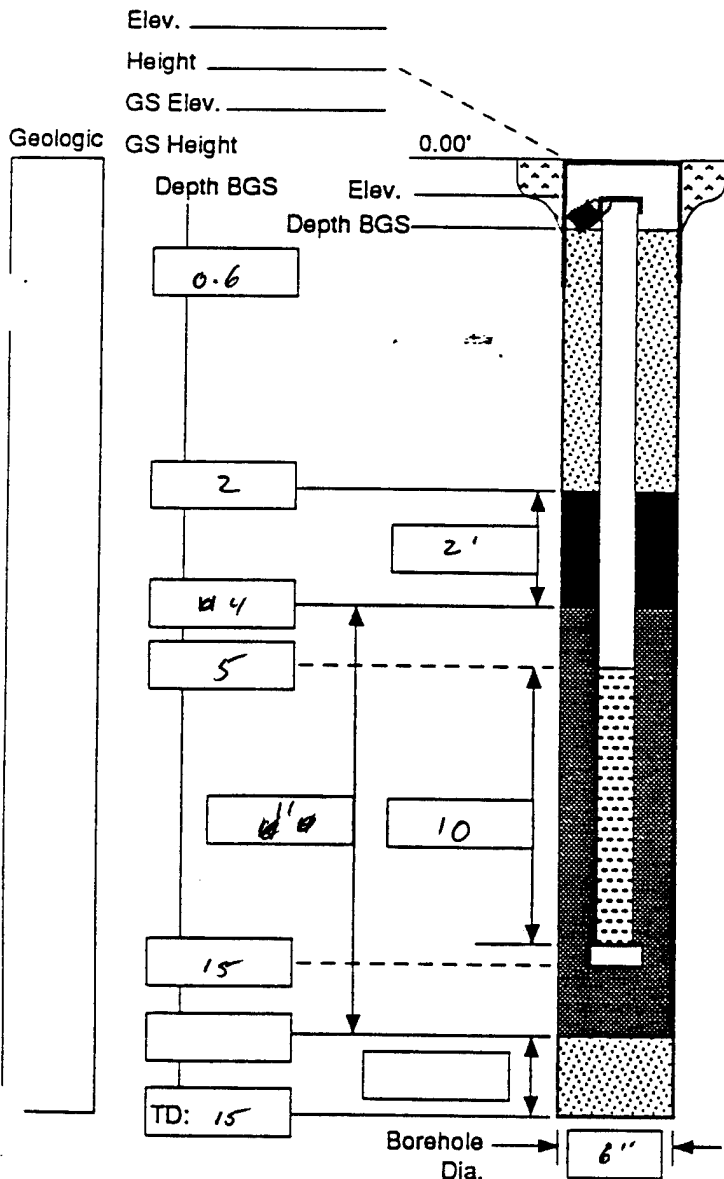
Material: N/A

Setup / Hydration Time: _____

Tremied (Y/N)

Form F-1023

9/1/91



Project Name: <i>Peoria ANG</i>						Project Number: <i>911655-03</i>					
Borehole Location: <i>Facility</i>						Borehole No. <i>Piezometer 2</i>			Sheet 1 of 1		
Drilling Agency: <i>Burlington</i>						Driller: <i>Tim Crank</i>					
Drilling Equipment: <i>Diedrich D50</i>						Date Started: <i>12-9-92</i>			Total Depth (feet): <i>15</i>		
Drilling Method: <i>4 1/4 I.D. H.S. Augers</i>						Date Finished: <i>12-9-92</i>			Depth to Bedrock (feet): <i>N/A</i>		
Drilling Fluid: <i>N/A</i>						Number of Samples: <i>—</i>			Depth to Water (feet): <i>6</i> (<i>3.84' B TOC</i>)		
Completion Information: <i>Borehole completed as Piezometer #2</i>						Borehole Diameter (in): <i>6"</i>			Elevation → <i>645.46' GS</i>		
						Logged by: <i>BFN</i>			and Datum: <i>TOC - 645.06</i>		
						Checked by: <i>PHL</i>			Date: <i>3-17-93</i>		
Depth (feet)	Sample					Field Analysis		LOG		Lithologic Description	Remarks
	Number	Interval	Blow Count	Recovery	Time	FID (ppm) S/B	PID (ppm) S/B	Graphic	USCS or Rock Type		
0										Grass at surface w/ topsoil 0-0.8'	
5										Clay w/ some silt & sand, moist, stiff, brown 0.8-5	
10										Sandy clay; fine grained, moist to wet, soft w/ few subrounded gravel clasts, yellowish brown 5-15	
15										TD=15'	
20											
25											
30											

Key

* S/B = Sample reading / background reading;

NA = not analyzed

Form F-1009
9/1/91

Monitoring Well Construction Log - Flush Mount

Project Name: <u>Peoria ANG</u>	Project Number: <u>911655-03</u>	Date: <u>12-9-92</u>
Well: <u>Piezometer #3</u>	Well ID: <u>Piezometer #3</u>	Sheet <u>1</u> of <u>1</u>
Driller: <u>Tim Crank</u>	Borehole Diameter (in): <u>8"</u>	Total Depth (ft): <u>16'</u>
Drilling Agency: <u>Burlington</u>	Date Started: <u>12-9-92</u>	Depth to Water (ft): <u>7' 7.49 87</u> <u>1-21-93</u>
Drilling Equipment: <u>Diedrich D50</u>	Date Finished: <u>12-9-92</u>	Elevation and Datum: <u>639.27' 6.5</u> <u>TOC 638.97'</u>
Drilling Method: <u>6 1/4 ID. H.S. Augers</u>	Logged by: <u>B. Norton</u>	Checked by: <u>PHL</u>
Drilling Fluid: <u>N/A</u>	Number of Samples: <u>-</u>	Date: <u>3-17-93</u>

PROTECTIVE CSQ

Material / Type: Christybox / Flush mount

Diameter: 6"

Depth BGS: _____ Weep Hole (Y/N) (Y)

GUARD POSTS (Y/N) (N)

No.: _____ Type: _____

SURFACE PAD

Composition and Size: concrete 2x2

RISER PIPE

Type: PVC

Diameter: 2-inch

Total Length (TOC to TOS): 4.7'

Ventilated Cap (Y/N) (N)

GROUT

Composition and Proportions: cement / bentonite

Tremied (Y/N) (N) 0.5 - 2'

Interval BGS: _____

CENTRALIZERS

Depth(s): _____

SEAL

Type: Bentonite

Source: _____

Setup / Hydration Time: 4hr Vol. Fluid Added 5 sacks

Tremied (Y/N) (N)

FILTER PACK

Type: 20/40 Silica Sand

Amt. Used: 6.5 bags

Tremied (Y/N) (N)

Source: _____

Gr. Size Dist: 20/40

SCREEN

Type: stainless steel / PVC

Diameter: 2" 2"

Slot Size and Type: 0.10

Interval BGS: 5 - 15'

WELL FOOT (Y/N) (N)

Interval BGS: _____ Length: _____

Bottom Cap (Y/N) (N)

BACKFILL PLUG

Material: 20/40 silica sand

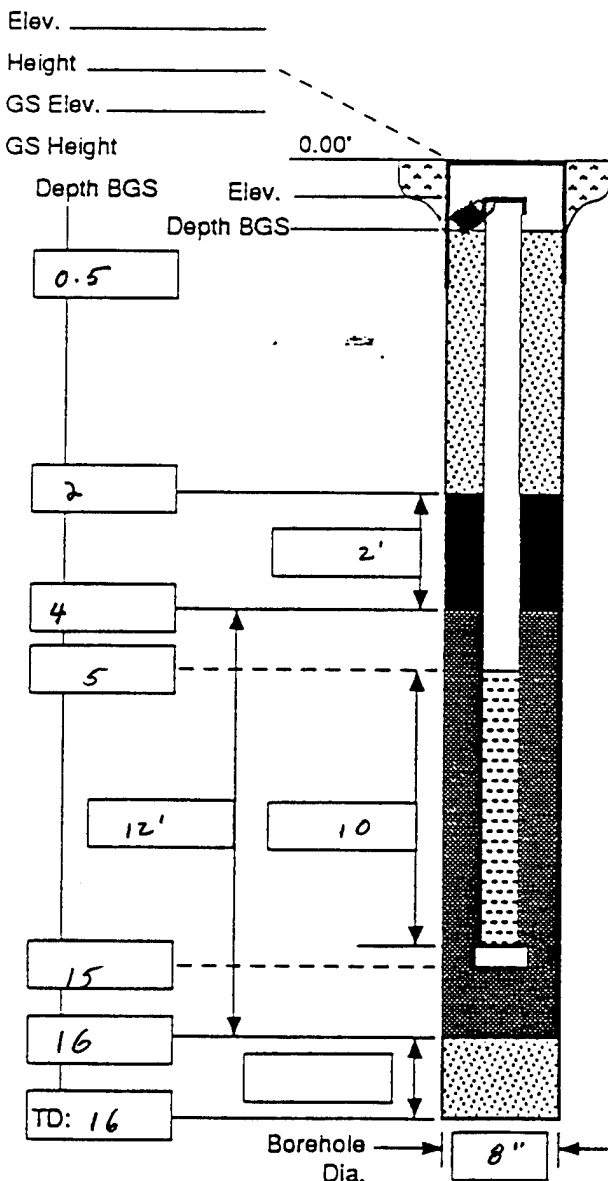
Setup / Hydration Time: _____

Tremied (Y/N) _____

Form F-1023

9/1/91

Geologic



Project Name: <u>Peoria ANG</u>						Project Number: <u>911655-03</u>	
Borehole Location: <u>Facility</u>						Borehole No. <u>Piezometer #3</u>	
Drilling Agency: <u>Burlington</u>						Driller: <u>Tim Crank</u>	
Drilling Equipment: <u>Diedrich D50</u>						Date Started: <u>12-9-92</u>	
Drilling Method: <u>6 1/4 I.D. H.S. Augers</u>						Total Depth (feet): <u>16</u>	
Drilling Fluid: <u>N/A</u>						Date Finished: <u>12-9-92</u>	
Completion Information: <u>Borehole completed as piezometer #3</u>						Depth to Bedrock (feet): <u>-</u>	
						Number of Samples: <u>2</u>	
						Depth to Water (feet): <u>7</u> (7.49' - 1-21-93)	
						Borehole Diameter (in): <u>8"</u>	
						Elevation GS - <u>639.27</u> and Datum: <u>TOC - 638.97</u>	
						Logged by: <u>BFIN</u>	
						Checked by: <u>PWL</u>	
						Date: <u>3-17-93</u>	

Depth (feet)	Sample					Field Analysis		LOG		Lithologic Description	Remarks
	Number	Interval	Blow Count	Recovery	Time	FID (ppm) S/B*	PID (ppm) S/B*	Graphic	USCS or Rock Type		
5	1	5 4 7	2 1/2 10 10	70			0			Grass at surface w/ top soil 0-0.5 Fill: clay w/ silt, moist stiff 0.5-4.0 Fill: clay w/ sand moist trace of silt, stiff medium plasticity 4.0-7 clay / sand clay, moist to wet, soft, low plasticity yellowish brown. 7-16 TD=16'	no samples were sent to lab for analysis
10	2	10 3 12	1 1/2 5 4	100			0				
15											
20											
25											
30											

Key

* S/B = Sample reading / background reading;

NA = not analyzed

Form F-1009
9/1/91

Monitoring Well Construction Log - Flush Mount

Project Name: <u>Peoria ANG</u>	Project Number: <u>911655-03</u>	Date: _____
Well: <u>Piezometer #4</u>	Well ID: <u>PZ #4</u>	Sheet: <u>1</u> of <u>1</u>
Driller: <u>Tim Crank</u>	Borehole Diameter (in): <u>8"</u>	Total Depth (ft): <u>15'</u>
Drilling Agency: <u>Burlington</u>	Date Started: _____	Depth to Water (ft): <u>6'</u> (3.1' BT 1-21-93)
Drilling Equipment: <u>Diedrich D50</u>	Date Finished: _____	Elevation and GS <u>639.96'</u>
Drilling Method: <u>6 1/4" I.D. H.S. Augers</u>	Logged by: <u>BFN</u>	Datum: <u>T6C 639.56'</u>
Drilling Fluid: <u>N/A</u>	Number of Samples: <u>—</u>	Checked by: <u>PAC</u>
		Date: <u>3-17-93</u>

PROTECTIVE CSG

Material / Type: christy box

Diameter: _____

Depth BGS: _____ Weep Hole (Y/N) _____

GUARD POSTS (Y/N)

No.: _____ Type: _____

SURFACE PAD

Composition and Size: concrete 2x2

RISER PIPE

Type: PVC

Diameter: 2-inch

Total Length (TOC to TOS): 4.6

Ventilated Cap (Y/N) _____

GROUT

Composition and Proportions: cement / bestonite

Tremied (Y/N) _____

Interval BGS: 2-4' 05-2

CENTRALIZERS

Depth(s): _____

SEAL

Type: Bestonite

Source: _____

Setup / Hydration Time: 1hr Vol. Fluid Added 5 gal.

Tremied (Y/N) _____

FILTER PACK

Type: 20/40 silica

Amt. Used: ~6 bags

Tremied (Y/N) _____

Source: _____

Gr. Size Dist: 20/40

SCREEN

Type: PVC

Diameter: 2-inch

Slot Size and Type: 0.010

Interval BGS: 5-15

WELL FOOT (Y/N)

Interval BGS: _____ Length: _____

Bottom Cap (Y/N) _____

BACKFILL PLUG

Material: _____

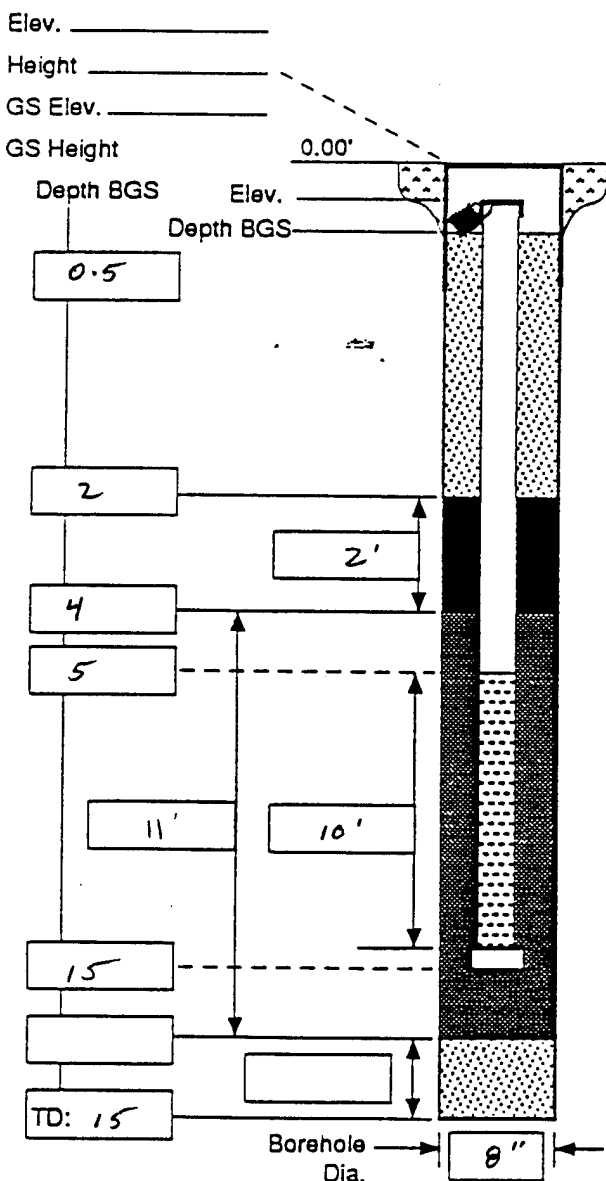
Setup / Hydration Time: _____

Tremied (Y/N) _____

Form F-1023

9/1/91

Geologic



Borehole Log

Project Name: <u>Peoria ANG</u>						Project Number: <u>911655-03</u>					
Borehole Location: <u>Piezometer #4</u>						Borehole No. <u>PZ #4</u>			Sheet 1 of 1		
Drilling Agency: <u>Burlington</u>						Driller: <u>Tim Crank</u>					
Drilling Equipment: <u>Oriskany D50</u>						Date Started:			Total Depth (feet): <u>15'</u>		
Drilling Method: <u>6 1/4 I.D. H.S. Augers</u>						Date Finished:			Depth to Bedrock (feet):		
Drilling Fluid: <u>N/A</u>						Number of Samples: <u>2</u>			Depth to Water (feet): <u>8.3'</u>		
Completion Information:						Borehole Diameter (in):			Elevation and Datum: <u>639.56</u>		
						Logged by: <u>BM</u>					
						Checked by: <u>OPJ</u>			Date: <u>7/12/93</u>		

Depth (feet)	Sample					Field Analysis		LOG		Lithologic Description	Remarks
	Number	Interval	Blow Count	Recovery	Time	FID (ppm) S/B	PID (ppm) S/B	Graphic	USCS or Rock Type		
0										Concrete 0-1.0'	
1										Gravelly 1-2.0'	
2										Fill:	
3										clay w/ some fine sand,	
4										light brown	
5										clay w/ silt	
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											
21											
22											
23											
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26											
27											
28											
29											
30											

Monitoring Well Construction Log - Flush Mount

Project Name: <u>Peoria ANG</u>	Project Number: <u>911655-03</u>	Date: <u>12-13-92</u>
Well: <u>Background</u>	Well ID: <u>mw1</u>	Sheet: <u>1</u> of <u>1</u>
Driller: <u>Tim Crank</u>	Borehole Diameter (in): <u>8"</u>	Total Depth (ft): <u>17</u>
Drilling Agency: <u>Burlington</u>	Date Started: <u>12-13-92</u>	Depth to Water (ft): <u>9 (6.1' STOC 1-19-93)</u>
Drilling Equipment: <u>Diedrich D50</u>	Date Finished: <u>12-13-92</u>	Elevation and Datum: <u>ground 647.9</u>
Drilling Method: <u>6 1/4 I.D. H.S. Augers</u>	Logged by: <u>BFN</u>	Checked by: <u>PHL</u>
Drilling Fluid: <u>N/A</u>	Number of Samples: <u>6</u>	Date: <u>3-17-93</u>

PROTECTIVE CSO

Material / Type: christy box

Diameter: _____

Depth BGS: _____ Weed Hole (Y/N) (N)

GUARD POSTS (Y/N) (N)

No.: _____ Type: _____

SURFACE PAD

Composition and Size: concrete 2x2

RISER PIPE

Type: stainless steel

Diameter: 2-inch

Total Length (TOC to TOS): 5.6

Ventilated Cap (Y/N) (N)

GROUT

Composition and Proportions: Cement

Tremied (Y/N) (N)

Interval BGS: 0.4 - 2'

CENTRALIZERS

Depth(s): _____

SEAL

Type: Bentonite

Source: _____

Setup / Hydration Time: 1hr Vol. Fluid Added: 5 gal

Tremied (Y/N) (N)

FILTER PACK

Type: silica sand 20/40

Amt. Used: 7 bags

Tremied (Y/N) (N)

Source: _____

Gr. Size Dist: 20/40

SCREEN

Type: stainless steel

Diameter: 2-inch

Slot Size and Type: 0.010

Interval BGS: 6-16

WELL FOOT (Y/N) (N) PHL 3-16-93

Interval BGS: 16-17' Length: 1'

Bottom Cap (Y/N) (N)

BACKFILL PLUG

Material: 20/40 Silica sand PHL 3-16-93

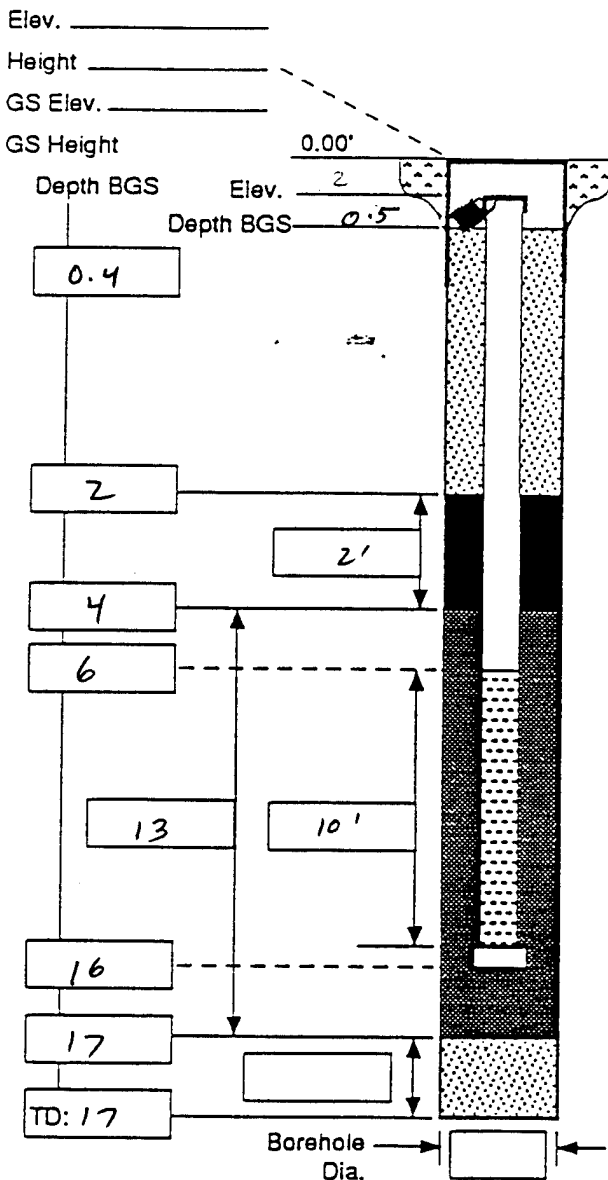
Setup / Hydration Time: _____

Tremied (Y/N) _____

Form F-1023

9/1/91

Geologic



Project Name: <u>Peoria ANG</u>						Project Number: <u>911655</u>					
Borehole Location: <u>Facility Background</u>						Borehole No. <u>RG-mw1</u>			Sheet 1 of 1		
Drilling Agency: <u>Burlington</u>						Driller: <u>Tim Crank</u>					
Drilling Equipment: <u>Diedrich D50</u>						Date Started: <u>12-13-92</u>			Total Depth (feet): <u>17</u>		
Drilling Method: <u>6 1/4 ID H.S. AUGERS</u>						Date Finished: <u>12-13-92</u>			Depth to Bedrock (feet): <u>—</u>		
Drilling Fluid <u>N/A</u>						Number of Samples: <u>6</u>			Depth to Water (feet): <u>~9 (6.1' BTOC 1-19-93)</u>		
Completion Information: <u>Borehole completed as Background monitoring well mw1</u>						Borehole Diameter (in): <u>8"</u>			Elevation <u>Ground</u> <u>647.9'</u> and Datum: <u>Toc</u> <u>647.35'</u>		
						Logged by: <u>BEN</u>					
						Checked by: <u>PAL</u>			Date: <u>3-17-93</u>		

Depth (feet)	Sample			Field Analysis		LOG		Lithologic Description	Remarks	
	Number	Interval	Blow Count	Recovery	Time	FID (ppm) S/B*	PID (ppm) S/B*			
1	1	0-2	9 1/8	70			0	Asphalt w/ Gravel subbase mixed w/ fines 0-2.0		
2	2	2-4	5 1/4	80			0			
3	3	4-6	4 1/2	85			0			
4	4	6-8	4 1/2	90			0			
5	5	8-10	4 1/2	90			0			
6	6	10-12	4 1/2	70			0			
10								clay w/ silt and trace of sand, fine grained, moist medium stiff-soft, medium plasticity yellowish brown 2-4.5		
15										silty clay w/ trace of sand moist, soft, medium to high plasticity 4.5-8.0
20										
25								Sand clay, moist to wet, soft, low plasticity mottled, yellowish brown - gray brown 8-17'		
30										material becomes wet at 10'

Key

* S/B = Sample reading / background reading;

NA = not analyzed

Form F-1009
9/1/91

Borehole Log

Project Name: <u>Peoria ANG</u>										Project Number:																			
Borehole Location: <u>Site 1</u>										Borehole No. <u>1SB1</u>										Sheet 1 of									
Drilling Agency: <u>Burlington</u>										Driller: <u>Tim Crank</u>																			
Drilling Equipment: <u>Piedrich D50</u>										Date Started: <u>12-10-92</u>										Total Depth (feet): <u>8</u>									
Drilling Method: <u>4 1/4 ID. H.S. Augers</u>										Date Finished: <u>12-10-92</u>										Depth to Bedrock (feet): <u>—</u>									
Drilling Fluid <u>N/A</u>										Number of Samples: <u>4</u>										Depth to Water (feet): <u>8'</u>									
Completion Information: <u>Borehole grouted to surface at completion</u>										Borehole Diameter (in): <u>6"</u>										Elevation and Datum: <u>646.2</u>									
										Logged by: <u>BFN</u>																			
										Checked by: <u>AKJ</u>										Date:									
Depth (feet)	Sample					Field Analysis		LOG		Lithologic Description										Remarks									
	Number	Interval	Blow Count	Recovery	Time	FID (ppm) S/B	PID (ppm) S/B	Graphic	USCS or Rock Type																				
0	1	0-2	2/13	70			1			Asphalt w/ gravel subbase mixed w/ some fines 0-1 Fill: Clay w/ silt & trace of sand, moist, stiff, dark gray 1-2.3 Clay w/ some sand, moist stiff, medium plasticity yellowish brown 2.3-5.3 Clayey sand / sandy clay moist to wet, medium stiff to soft, fine grained, low plasticity, yellowish brown 5.3-6.5 Sandy clay; moist to wet soft, low plasticity yellowish brown 6.5-8.0																			
2	2	2-4	4/12	80			2																						
5	3	4-6	2 1/2/10	85			0																						
	4	6-8	5 1/2/11	80			0																						
10																													
15																													
20																													
25																													
30																													

Key

* S/B = Sample reading / background reading;

NA = not analyzed

Form F-1009
9/1/91

Borehole Log

Project Name: <i>Peoria ANG</i>						Project Number: <i>911655-03</i>					
Borehole Location: <i>Site 1</i>						Borehole No. <i>1582</i>			Sheet 1 of 1		
Drilling Agency: <i>Burlington</i>						Driller: <i>Tim Crank</i>					
Drilling Equipment: <i>Diedrich D50</i>						Date Started: <i>12-10-92</i>			Total Depth (feet): <i>8</i>		
Drilling Method: <i>4 1/4 ID Hollow stem Augers</i>						Date Finished: <i>12-10-92</i>			Depth to Bedrock (feet): <i>N/A</i>		
Drilling Fluid <i>N/A</i>						Number of Samples: <i>4</i>			Depth to Water (feet): <i>6</i>		
Completion Information: <i>Borehole grouted to surface at completion</i>						Borehole Diameter (in): <i>6"</i>			Elevation and Datum: <i>644.8</i>		
						Logged by: <i>BFN</i>					
						Checked by: <i>AFJ</i>			Date:		

Depth (feet)	Sample				Field Analysis		LOG		Lithologic Description	Remarks
	Number	Interval	Blow Count	Recovery %	Time	FID (ppm) S/B	PID (ppm) S/B	Graphic		
1	1	0-2	9 1/8	50			2		Asphalt/gravel subbase 0-1.0	
2	2	2-4	5 1/8	70			3		Fill: Clay w/ silt, moist stiff, w/ some debris (wood, metal fragments) dark gray 1-3	
5	3	4-6	3 1/5	70			0		Fill: Clay w/ trace of silt & sand, soft, moderate plasticity, dark gray 3-6.5	
	4	6-8	2 3/8	75			0		Fill: Clay, soft, wet low to medium plasticity some silt & sand 6.5-7.0	water at 6'
10									Fill: Gravel & sand, poorly sorted, angular to subrounded wet, 100% 7-8	
15										
20										
25										
30										

Key

* S/B = Sample reading / background reading;

NA = not analyzed

Form F-1009
9/1/91

Borehole Log

Project Name: <i>Peoria ANG</i>						Project Number: <i>911655-03</i>		
Borehole Location: <i>site 1</i>						Borehole No. <i>1583</i>		Sheet 1 of 1
Drilling Agency: <i>Burlington</i>						Driller: <i>Tim Crank</i>		
Drilling Equipment: <i>Diedrich D50</i>						Date Started: <i>12-10-92</i>	Total Depth (feet): <i>12'</i>	
Drilling Method: <i>4 1/4 ID H.S Augers</i>						Date Finished: <i>12-10-92</i>	Depth to Bedrock (feet): <i>—</i>	
Drilling Fluid: <i>N/A</i>						Number of Samples: <i>5</i>	Depth to Water (feet): <i>10</i>	
Completion Information: <i>Borehole grouted to surface at completion</i>						Borehole Diameter (in): <i>6"</i>	Elevation and Datum: <i>646.4</i>	
						Logged by: <i>BFN</i>		
						Checked by: <i>DT</i>	Date:	

Depth (feet)	Sample				Field Analysis		LOG		Lithologic Description	Remarks
	Number	Interval	Blow Count	Recovery%	Time	FID (ppm) S/B	PID (ppm) S/B	Graphic		
0-1	1	0-2							Asphalt w/ gravel subbase	
1-2	2	2-4	6/13 20 26	90			60 0		possible Fill: Clay w/ trace of silt & sand, moist, stiff plastic, dark gray	
2-3	3	4-6	6/13 12 14	85			20		same as above color changes to light brownish gray	
3-4	4	6-8	8/10 12 12	78			0			
4-5	5	8-10	3/4 8 10	50			0			
5-6	6	10-12	3/6 12 8	75			0		Clay w/ silt & sand, moist stiff to soft, medium plasticity, contains few well rounded gravel clasts, light to dark gray	water at 10'
6-12										
12-14										
14-16										
16-18										
18-20										
20-22										
22-24										
24-26										
26-28										
28-30										

Key

* S/B = Sample reading / background reading;

NA = not analyzed

Form F-1009
9/1/91

Borehole Log

Project Name: <i>Peoria ANG</i>						Project Number: <i>911655-03</i>	
Borehole Location: <i>site 1</i>						Borehole No. <i>1584</i>	
Drilling Agency: <i>Burlington</i>						Driller: <i>Tim Crank</i>	
Drilling Equipment: <i>Diedrich D50</i>						Date Started: <i>12-12-92</i>	Total Depth (feet): <i>28.5</i>
Drilling Method: <i>4 1/4 ID. H.S. Augers</i>						Date Finished: <i>12-12-92</i>	Depth to Bedrock (feet): <i>28.5'</i>
Drilling Fluid: <i>N/A</i>						Number of Samples: <i>15</i>	Depth to Water (feet): <i>≈ 8'</i>
Completion Information: <i>Borehole grouted to surface upon completion</i>						Borehole Diameter (in): <i>6"</i>	Elevation and Datum: <i>645.7</i>
						Logged by: <i>BFN</i>	
						Checked by: <i>DFJ</i>	Date:

Depth (feet)	Sample			Field Analysis		LOG		Lithologic Description	Remarks
	Number	Interval	Blow Count	Recovery%	Time	FID (ppm) S/B*	PID (ppm) S/B*		
5	1	0-2	10	50			8	Asphalt at surface w/ gravel subbase 0-0.8	
	2	2-4	40	56			4		
	3	4-6	50	75			6		
	4	6-8	30	80			0		
10	5	8-10	40	90			0	Fill: clay mixed w/ gravel poorly sorted, grayish brown, moist, soft to medium stiff, medium plasticity dark gray 2-7.5'	
	6	10-12	40	90			90		
	7	12-14	30	90			150		
	8	14-16	40	90			200		
15	9	16-18	40	90			190	Fill: Gravel, angular to subangular well sorted, decrease in size w/ depth, trace of sand, wet loose 7.5-12.0	
	10	18-20	40	90			170		
	11	20-22	40	80			65		
	12	22-24	30	90			300		
20	13	24-26	30	90			90	Sandy clay; fine grained moist, to wet, low plasticity slightly mottled, yellowish brown 12-14.3	
	14	26-28	40	80			40		
	15	28-30	20	45			0		

Key

* S/B = Sample reading / background reading;

NA = not analyzed

Form F-1009
9/1/91

Borehole Log

Project Name: <i>Pearce ANG</i>						Project Number: <i>911655-03</i>					
Borehole Location: <i>Site 1</i>						Borehole No. <i>1585</i>			Sheet 1 of <i>1</i>		
Drilling Agency: <i>Burlington</i>						Driller: <i>Tim Crank</i>					
Drilling Equipment: <i>Diedrich D50</i>						Date Started: <i>12-12-92</i>			Total Depth (feet): <i>10</i>		
Drilling Method: <i>4 1/4 ID H.S. Augers</i>						Date Finished: <i>12-12-92</i>			Depth to Bedrock (feet): <i>N/A</i>		
Drilling Fluid: <i>N/A</i>						Number of Samples: <i>5</i>			Depth to Water (feet): <i>~9.5'</i>		
Completion Information: <i>Borehole grouted to surface at completion</i>						Borehole Diameter (in): <i>6"</i>			Elevation and Datum: <i>644.5</i>		
						Logged by: <i>BFN</i>					
						Checked by: <i>dfj</i>			Date:		

Depth (feet)	Sample				Field Analysis		LOG		Lithologic Description	Remarks
	Number	Interval	Blow Count	Recovery %	Time	FID (ppm) S/B	PID (ppm) S/B	Graphic		
5			<i>2 1/2</i>	<i>79%</i>			<i>0</i>			<i>Asphalted gravel subbase - some fines mixed w/ gravel 0-1'</i> <i>Clay: w/trace of silt; sand moist, medium stiff, plastic greenish gray 1-4.5</i>
			<i>5 1/2</i>	<i>80%</i>			<i>0</i>			
			<i>5 1/2</i>	<i>90%</i>			<i>0</i>			
			<i>4 1/2</i>	<i>95%</i>			<i>0</i>			
10			<i>4 1/2</i>	<i>88%</i>			<i>0</i>			<i>Clay w/trace of sand moist, medium plasticity stiff, light gray 4.5-6.5</i> <i>Sandy clay / clayey sand moist to wet, very fine grained, soft w/ low plasticity - yellowish brown 6.5-10.0</i>
15										<i>Water at ~9.5'</i>
20										
25										
30										

Key

* S/B = Sample reading / background reading;

NA = not analyzed

Form F-1009
9/1/91

Monitoring Well Construction Log - Flush Mount

Project Name: <u>PEORIA ANG</u>	Project Number: <u>911655-03</u>	Date: <u>1-17-93</u>
Well: <u>Site 1</u>	Well ID: <u>51-MW1</u>	Sheet <u>1</u> of <u>1</u>
Driller: <u>Tim Crank</u>	Borehole Diameter (in): <u>12"</u>	Total Depth (ft): <u>14'</u>
Drilling Agency: <u>Burlington</u>	Date Started: <u>1-17-93</u>	Depth to Water (ft): <u>26'</u>
Drilling Equipment: <u>CME 75</u>	Date Finished: <u>1-17-93</u>	Elevation and Datum: <u>Ground 64' - TOL 6'</u>
Drilling Method: <u>6 1/4 I.D. H.S. Augers</u>	Logged by: <u>B. Norton</u>	Checked by: <u>DET</u>
Drilling Fluid: <u>—</u>	Number of Samples: <u>—</u>	Date: <u>—</u>

PROTECTIVE CSO

Material / Type: —

Diameter: —

Depth BGS: — Weep Hole (Y/N) (Y)

GUARD POSTS (Y/N)

No.: — Type: —

SURFACE PAD

Composition and Size: Concrete 18" DIA

RISER PIPE

Type: S. Steel

Diameter: 2"

Total Length (TOC to TOS): 25'

Ventilated Cap (Y/N) (Y)

GROUT

Composition and Proportions: —

Tremied (Y/N) (Y)

Interval BGS: —

CENTRALIZERS

Depth(s): —

SEAL

Type: Bentonite

Source: Subcontractor

Setup / Hydration Time: 1hr Vol. Fluid Added: 552

Tremied (Y/N) (Y)

FILTER PACK

Type: Silica Sand 20/40

Amt Used: 2 6.7 Bags

Tremied (Y/N) (Y)

Source: Subcontractor

Gr. Size Dist: 20/40

SCREEN

Type: S. Steel

Diameter: 2"

Slot Size and Type: 0.01

Interval BGS: 3-13

WELL FOOT (Y/N)

Interval BGS: — Length: —

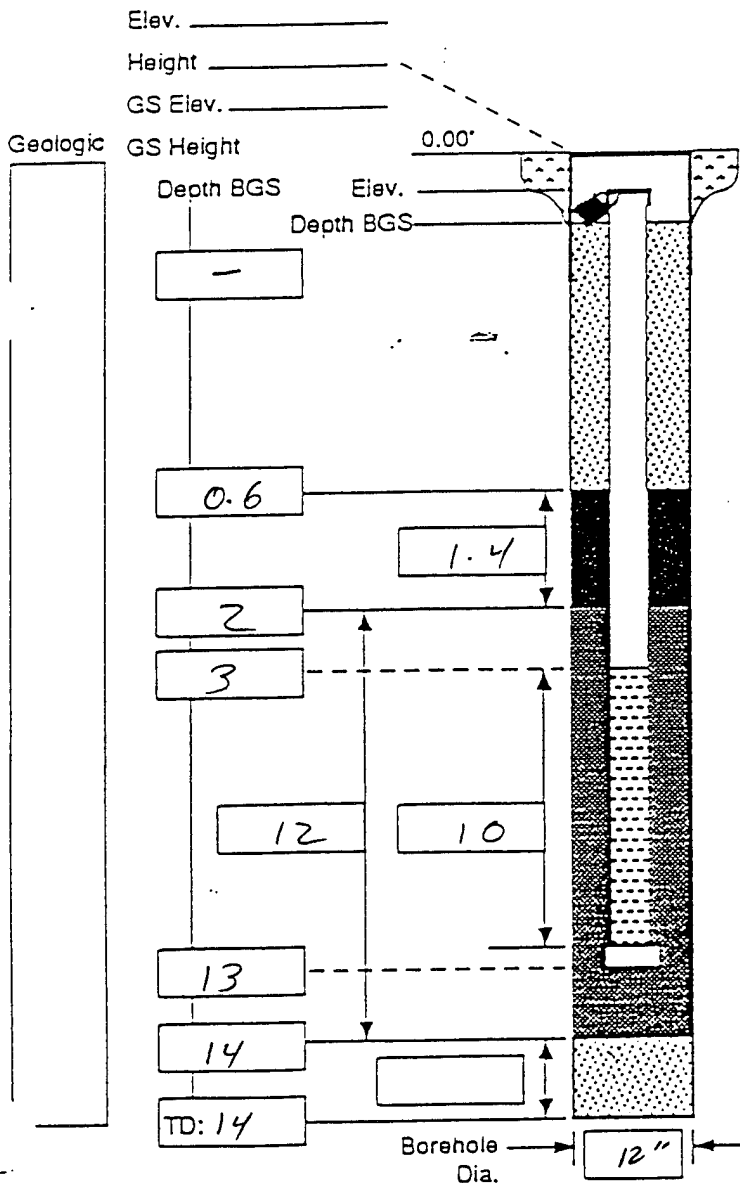
Bottom Cap (Y/N) (Y)

BACKFILL PLUG

Material: —

Setup / Hydration Time: — Form Factor: —

Tremied (Y/N) (Y)



Borehole Log

Project Name: <i>Peoria ANG</i>						Project Number: <i>911655-03</i>						
Borehole Location: <i>Site 1</i>						On Base <input checked="" type="checkbox"/> Off Base <input type="checkbox"/>		Borehole No. <i>51-mw1</i>			Sheet 1 of 1	
Drilling Agency: <i>Burlington</i>						Driller: <i>Tim Crank</i>						
Drilling Equipment: <i>CME 75</i>						Date Started: <i>1-17-93</i>			Total Depth (feet): <i>14'</i>			
Drilling Method: <i>6 1/4</i>						CMCCODE: HA <input type="checkbox"/> HS <input checked="" type="checkbox"/> P <input type="checkbox"/>		Date Finished: <i>1-17-93</i>			Depth to Bedrock (feet): <i>-</i>	
Drilling Fluid: <i>-</i>						Number of Samples: <i>3</i>			Depth to Water (feet): <i>~5'</i>			
Completion Information: <i>Borehole completed as monitoring well</i>						Borehole Diameter (in): <i>12"</i>			Elevation <i>Ground</i> <i>647.9</i> and Datum: <i>TOL</i> <i>647.35</i>			
						Logged by: <i>BEN</i>			LTCCODE: BH <input checked="" type="checkbox"/> WL <input checked="" type="checkbox"/>			
						Checked by: <i>DET</i>			Date:			

Depth (feet)	Sample					Field Analysis		LOG		Lithologic Description	Remarks [LITHCODE]: [STRATORDER]
	Number	Interval	Blow Count	Recovery	Time	FID (ppm) S/B*	PID (ppm) S/B*	Graphic	USCS or Rock Type		
0										Asphalt 0-0.8	
0.8										Fill Gravel w/ fines 0.8-2.0	
2.0	1		4 1/2	80%		0				Clay w/ trace of sand, blue gray - grayish brown plastic, soft to med stiff 2.0-8.5	
5	2		shelby Tube								
8.5	3		1 1/2	70%		0				Increase in % of sand w/ depth Sandy Clay / clayey sand yellowish brown - brown moist - wet, soft low plasticity 8.5-15	
15											
20											
25											
30											

Key

* S/B = Sample reading / background reading;

NA = not analyzed

Form F-1009
4/13/92

Borehole Log

Project Name: <i>Peoria ANG</i>						Project Number: <i>911655-3</i>					
Borehole Location: <i>Site 2</i>						Borehole No. <i>2581</i>			Sheet 1 of 1		
Drilling Agency: <i>Burlington</i>						Driller: <i>Tim Crank</i>					
Drilling Equipment: <i>Diedrich D50</i>						Date Started: <i>12-8-92</i>			Total Depth (feet): <i>12</i>		
Drilling Method: <i>4 1/4 ID H.S. Augers</i>						Date Finished: <i>12-8-92</i>			Depth to Bedrock (feet): <i>—</i>		
Drilling Fluid: <i>N/A</i>						Number of Samples: <i>3</i>			Depth to Water (feet): <i>8</i>		
Completion Information: <i>Borehole completed grouted to surface at completion</i>						Borehole Diameter (in): <i>6"</i>			Elevation and Datum: <i>643.8' elevation</i>		
						Logged by: <i>BFN</i>					
						Checked by: <i>PIL</i>			Date: <i>3-12-93</i>		

Depth (feet)	Sample			Field Analysis		LOG		Lithologic Description	Remarks
	Number	Interval	Flow Count	Recovery	Time	FID (ppm) S/B	PID (ppm) S/B		
0-1	1	0 to 2	5 1/2 13 16	70			0	Grass at surface w/ topsoil	WATER AT 8'
1-5	2	5 to 7	3 1/2 8 18	60			0	Clay w/ some silt & sand, moist, stiff to hard, plastic yellowish brown	
5-12	3	10 to 12	4 1/2 2 17	90			0	Clay w/ sand, fine grained, moist to wet, stiff to soft medium plasticity, yellowish brown	
12								TD=12'	

Key

* S/B = Sample reading / background reading;

NA = not analyzed

Form F-1009
9/1/91

Project Name: <u>Peoria ANG</u>						Project Number: <u>911655-03</u>	
Borehole Location: <u>Site 2</u>						Borehole No. <u>2582</u>	
Drilling Agency: <u>Burlington</u>						Driller: <u>Tim Crank</u>	
Drilling Equipment: <u>Piedrich D50</u>						Date Started: <u>12-8-92</u>	Total Depth (feet): <u>29.5</u>
Drilling Method: <u>4 1/4 ID HS Augers</u>						Date Finished: <u>12-8-92</u>	Depth to Bedrock (feet): <u>28</u>
Drilling Fluid: <u>N/A</u>						Number of Samples: <u>15</u>	Depth to Water (feet): <u>10</u>
Completion Information: <u>Borehole grouted to surface at completion</u>						Borehole Diameter (in): <u>6"</u>	Elevation and Datum: <u>642.9' elevation</u>
						Logged by: <u>BFN</u>	
						Checked by: <u>DHL</u>	Date: <u>3-12-93</u>

Depth (feet)	Sample			Field Analysis		LOG		Lithologic Description	Remarks
	Number	Interval	Blow Count	Recovery	Time	FID (ppm) S/B*	PID (ppm) S/B*		
1	1	0-2	27	50			0	Grass at surface and top 50'	WATER at 10'
	2	2-4	24	70			0	Fill: Clay w/ trace of silt; sand moist, stiff, trace of organics (root hairs) and debris (broken brick, metal) 2-5	
5	3	4-6	11	75			0	Fill: Clay w/ silt, moist, highly plastic, stiff to hard, yellowish brown 5-7	
	4	6-8	11	75			0	Clay w/ trace of sand, moist to wet, trace of organics, soft to med stiff, dark blue gray 7-13	
10	5	8-10	3 1/2	80			0	Sandy clay / clay w/ sand wet to moist, stiff, yellowish brown 13-17.5	
	6	10-12	4 1/2	90			0	Clay; w/ some broken shale fragments and subrounded gravel clast (very small); stiff, medium to high plasticity 17.5-18.5	
15	7	12-14	5 1/2	90			0	Sandy clay; fine grained moist, soft to stiff, dark gray 18.5-25	
	8	14-16	4 1/2	90			0	Clay w/ some angular shale fragments, sand, medium grained, moist, hard 25-26	
20	9	16-18	2 1/2	95			0	Clay w/ some sand and shale scums, thinly bedded 26-27.5	
	10	18-20	3 1/2	100			0	Refusal 29.5 TD=29.5	
25	11	20-22	7 1/2	50			0		
	12	22-24	7 1/2	70			0		
30	13	24-26	4 1/2	70			0		
	14	26-28	8 1/2	70			0		
	15	28-30	20	100			0		

Key

* S/B = Sample reading / background reading;

NA = not analyzed

Form F-1009
9/1/91

Project Name: <i>Peoria ANG</i>						Project Number: <i>911655-03</i>	
Borehole Location: <i>Site 2</i>						Borehole No. <i>2583</i>	
Drilling Agency: <i>Burlington</i>						Driller: <i>Tim Crank</i>	
Drilling Equipment: <i>Piedrich D50</i>						Date Started: <i>12-8-92</i>	Total Depth (feet): <i>12</i>
Drilling Method: <i>4 1/4 ID H.S. Augers</i>						Date Finished: <i>12-8-92</i>	Depth to Bedrock (feet): <i>-</i>
Drilling Fluid: <i>N/A</i>						Number of Samples: <i>3</i>	Depth to Water (feet): <i>~8'</i>
Completion Information: <i>Borehole grouted to surface at completion.</i>						Borehole Diameter (in): <i>6"</i>	Elevation and Datum: <i>641.9'</i>
						Logged by: <i>BFN</i>	
						Checked by: <i>PAL</i>	Date: <i>3-17-93</i>

Depth (feet)	Sample			Field Analysis		LOG		Lithologic Description	Remarks
	Number	Interval	Blow Count	Recovery	Time	FID (ppm) S/B*	PID (ppm) S/B*		
1	1	0-2	4 1/8 12 10	70			0	Grass w/ Topsoil 0-1.5'	
5	2	5-7	6 1/8 12 77	75			0		
10	3	10-12	2 3/8 4 1/8	75			0		
15								Sandy clay, moist to wet fine grained, soft to med stiff, medium plasticity yellowish brown 6-12'	
20									
25									
30								TD=12'	

Key

* S/B = Sample reading / background reading;

NA = not analyzed

Form F-1009
9/1/91

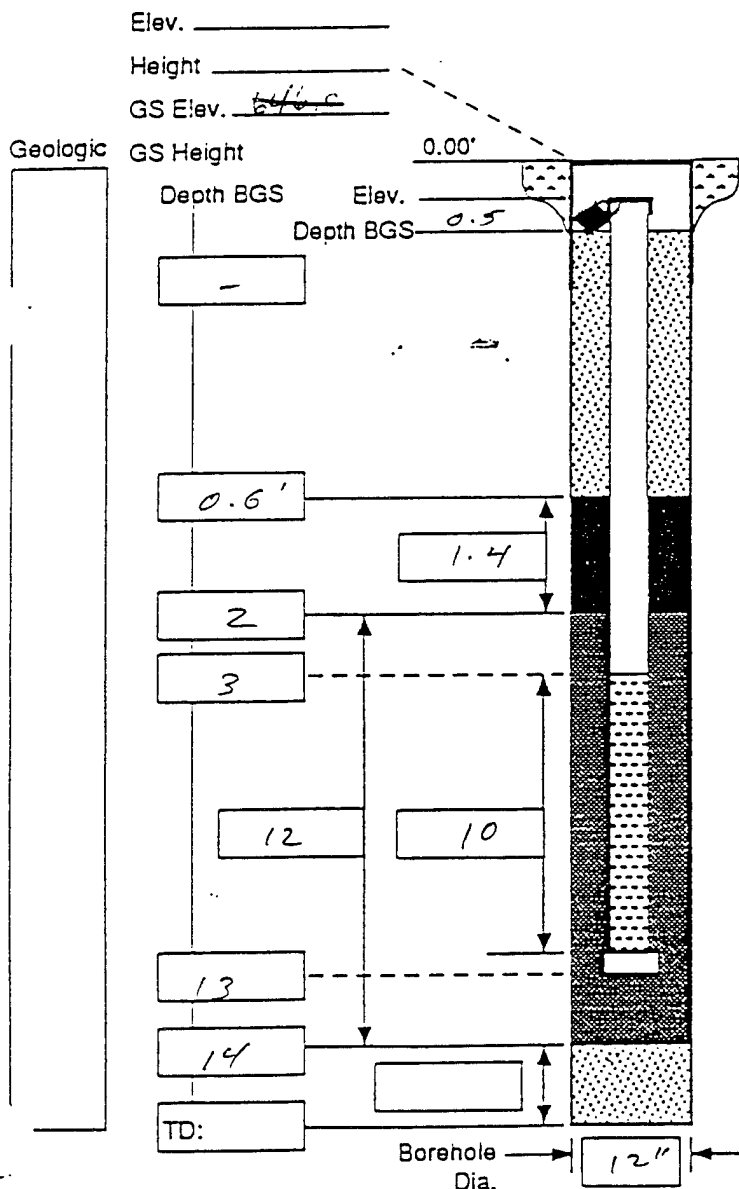
Key

NA = not analyzed

Form F-1009
9/1/91

Monitoring Well Construction Log - Flush Mount

Project Name: <u>Pro 112 ANG</u>	Project Number: <u>911655-03</u>	Date: <u>1-17-93</u>
Well: <u>3A-mw1</u>	Well ID: <u>3A-mw1</u>	Sheet <u>1</u> of <u>1</u>
Driller: <u>Tim Clark</u>	Borehole Diameter (in): <u>12"</u>	Total Depth (ft): <u>14'</u>
Drilling Agency: <u>Berlington</u>	Date Started: <u>1-17-93</u>	Depth to Water (ft): <u>~4.5'</u>
Drilling Equipment: <u>CME-75</u>	Date Finished: <u>1-17-93</u>	Elevation and Datum: <u>Ground 646.5</u> <u>TIC 645.4</u>
Drilling Method: <u>6 1/4 I.D. H.S. augers</u>	Logged by: <u>B. Norton</u>	Checked by: <u>DFJ</u>
Drilling Fluid: <u>-</u>	Number of Samples: <u>-</u>	Date: <u>-</u>



PROTECTIVE CSG

Material / Type: 8"
Diameter: 8"
Depth BGS: 0.5 Weep Hole (Y/N) (Y)
GUARD POSTS (Y/N) (Y)
No.: _____ Type: _____

SURFACE PAD

Composition and Size: _____

RISER PIPE

Type: S. Steel
Diameter: 2-inch
Total Length (TOC to TOS): 2.5'
Ventilated Cap (Y/N) (Y)

GROUT

Composition and Proportions: _____

Tremied (Y/N)

Interval BGS: _____

CENTRALIZERS

Depth(s): _____

SEAL

Type: Bentonite
Source: Sub Contractor
Setup / Hydration Time: 1 hr Vol. Fluid Added 5 gal

Tremied (Y/N)

FILTER PACK

Type: 20/40 Silica Sand
Amt. Used: ~6 Bags

Tremied (Y/N)

Source: Sub Contractor

Gr. Size Dist: 20/40

SCREEN

Type: S. Steel
Diameter: 2"

Slot Size and Type: 0.01

Interval BGS: 2-13

WELL FOOT (Y/N)

Interval BGS: _____ Length: _____

Bottom Cap (Y/N)

BACKFILL PLUG

Material: _____

Setup / Hydration Time: _____

Tremied (Y/N) _____

Borehole Log

Project Name: <u>Peoria A16</u>						Project Number: <u>911655-03</u>								
Borehole Location: <u>site 3A</u>						On Base <input checked="" type="checkbox"/> Off Base <input type="checkbox"/>			Borehole No. <u>3A-mw1</u>			Sheet 1 of 1		
Drilling Agency: <u>Burlington</u>						Driller: <u>Tim Crank</u>								
Drilling Equipment: <u>CME-75</u>						Date Started: <u>1-17-93</u>			Total Depth (feet): <u>14'</u>					
Drilling Method: <u>6 1/4 ID.</u>						CMCCODE: HA <input type="checkbox"/> HS <input checked="" type="checkbox"/> P <input type="checkbox"/>			Date Finished: <u>1-17-93</u>			Depth to Bedrock (feet): <u>—</u>		
Drilling Fluid: <u>—</u>						Number of Samples: <u>2</u>			Depth to Water (feet): <u>6.5' 4.5'</u>					
Completion Information: <u>Borehole completed as monitoring well.</u>						Borehole Diameter (in): <u>12"</u>			Elevation Ground <u>645.6</u> and Datum: <u>TOL 646.0</u>					
						Logged by: <u>REAL</u>			LTCCODE: BH <input checked="" type="checkbox"/> WL <input checked="" type="checkbox"/>					
						Checked by: <u>QCT</u>			Date: <u></u>					

Depth (feet)	Sample				Field Analysis		LOG		Lithologic Description	Remarks [LITHCODE] [STRATORDER]
	Number	Interval	Blow Count	Recovery	FID (ppm) S/B*	PID (ppm) S/B*	Graphic	USCS or Rock Type		
5	1	X	2 1/2 5/6	80		0			Asphalt 0-0.8 Fill: Gravel w/ fines 0.8-2.5 Clay; brown - yellowish brown moist, slightly mottled medium stiff - soft, plastic 2.5 - 4.0	SATURATED 4.5'
10	2	X	1 1/2 3	80		0			Clay w/ fine grained sand, yellowish brown medium plasticity 4.0 - 7.0	
15									slight increase in % s sand w/ depth Clayey sand / sandy clay wet, soft low plasticity 7.0 - 14	
20										
25										
30										

Key

* S/B = Sample reading / background reading;

NA = not analyzed

Form F-1009
4/13/92

Borehole Log

Project Name: <i>Peoria ANG</i>						Project Number: <i>911655-03</i>					
Borehole Location: <i>Site 3B</i>						Borehole No. <i>3B-SB1</i>			Sheet 1 of 1		
Drilling Agency: <i>Burlington</i>						Driller: <i>Tim Crank</i>					
Drilling Equipment: <i>Diedrich D50</i>						Date Started: <i>12-8-92</i>			Total Depth (feet): <i>12</i>		
Drilling Method: <i>4 1/4 I.D. H.S. Augers</i>						Date Finished: <i>12-8-92</i>			Depth to Bedrock (feet): <i>-</i>		
Drilling Fluid: <i>N/A</i>						Number of Samples: <i>3</i>			Depth to Water (feet): <i>9</i>		
Completion Information: <i>Borehole grouted to surface at completion</i>						Borehole Diameter (in): <i>6"</i>			Elevation and Datum: <i>645.5</i>		
						Logged by: <i>BFN</i>					
						Checked by: <i>PHL</i>			Date: <i>3-17-93</i>		

Depth (feet)	Sample			Field Analysis		LOG		Lithologic Description	Remarks
	Number	Interval	Blow Count	Recovery	Time	FID (ppm) S/B*	PID (ppm) S/B*		
1	0	1/2	11	70			0	Grass w/ topsoil 0-0.8'	
	2								
5									
	2	5	5 1/2	85			0	Clay w/ silt, trace of sand, fine grained moist, stiff, medium plasticity, yellowish brown 0.8-5'	
10	3	10	6 1/2	90			0	Clay w/ sand, fine grained, moist, soft to stiff, low to medium plasticity 5-8'	Seto water 29'
		1	11						
		12	12						
15								material changes to sandy clay yellowish brown, low plasticity 8-12'	
20								TD=12'	
25									
30									

Key

* S/B = Sample reading / background reading;

NA = not analyzed

Project Name: <i>Peoria ANG</i>						Project Number: <i>911655-03</i>					
Borehole Location: <i>site 3B</i>						Borehole No. <i>385B2</i>			Sheet 1 of 1		
Drilling Agency: <i>Burlington</i>						Driller: <i>Tim Crank</i>					
Drilling Equipment: <i>Diedrich D50</i>						Date Started: <i>12-8-92</i>			Total Depth (feet): <i>12</i>		
Drilling Method: <i>4 1/4 ID H.S. Augers</i>						Date Finished: <i>12-8-92</i>			Depth to Bedrock (feet): <i>—</i>		
Drilling Fluid: <i>N/A</i>						Number of Samples: <i>3</i>			Depth to Water (feet): <i>7</i>		
Completion Information: <i>Borehole grouted to surface at completion</i>						Borehole Diameter (in): <i>6"</i>			Elevation and Datum: <i>645.2</i>		
						Logged by: <i>BFN</i>					
						Checked by: <i>BNL</i>			Date: <i>3-17-93</i>		
Depth (feet)	Sample				Field Analysis		LOG		Lithologic Description	Remarks	
	Number	Interval	Blow Count	Recovery	Time	FID (ppm) S/B	PID (ppm) S/B	Graphic			USCS or Rock Type
0	1	0-2	38/13	70			0		Grass w/ topsoil 0-1.0 Clay w/ trace of sand: moist, stiff, yellowish brown - brown 1-5		
5	2	5-7	46/8	70			0				
10	3	10-12	45/6	100			0				
15									Clay w/ sand: moist, stiff medium-low plasticity yellowish brown 5-12		
20									same as above increase in % of sand w/ depth		
25									TD = 12'		
30											

Key

* S/B = Sample reading / background reading;

NA = not analyzed

Form F-1009
9/1/91

Borehole Log

Project Name: <i>Peoria ANG</i>						Project Number: <i>911655-03</i>			
Borehole Location: <i>site 3B</i>						Borehole No. <i>38583</i>		Sheet 1 of 1	
Drilling Agency: <i>Burlington</i>						Driller: <i>Tim Crank</i>			
Drilling Equipment: <i>Diedrich D50</i>						Date Started: <i>12-10-92</i>		Total Depth (feet): <i>28'</i>	
Drilling Method: <i>4 1/4 ID. H.S. Augers</i>						Date Finished: <i>12-10-92</i>		Depth to Bedrock (feet): <i>28</i>	
Drilling Fluid: <i>N/A</i>						Number of Samples: <i>14</i> <i>12-10-92</i>		Depth to Water (feet): <i>~16'</i>	
Completion Information: <i>Borehole grouted to surface at completion</i>						Borehole Diameter (in): <i>6"</i>		Elevation and Datum: <i>644.7'</i>	
						Logged by: <i>BFAI</i>			
						Checked by: <i>JAL</i>		Date: <i>3-17-93</i>	

Depth (feet)	Sample				Field Analysis		LOG		Lithologic Description	Remarks
	Number	Interval	Blow Count	Recovery %	Time	FID (ppm) S/B*	PID (ppm) S/B*	Graphic		
5	1	0-2	12-50	50			0		<i>Grassy w/ 70-80% few boulders organics (root hairs) 0-2</i> <i>(possible fill)</i> <i>Clay w/ silt & sand, moist, stiff medium plasticity, yellowish brown 2-6.5</i> <i>Clay w/ trace of silt, moist, stiff plastic, dark blue gray 6.5-10</i> <i>increase in % of sand w/ depth</i>	<i>water at ~10'</i>
	2	2-4	12-70	70			0			
	3	4-6	12-60	60			4			
	4	6-8	12-80	80			0			
	5	8-10	12-100	100			0			
10	6	10-12	12-90	90			0		<i>clayey sand / sandy clay, fine grained, moist to wet soft, low plasticity, gray to grayish brown 10-13</i> <i>clayey sand, w/ some small angular shale fragments, moist to wet, mottled 13-14</i> <i>clayey sand / sandy clay, moist stiff, low to medium plasticity brownish gray - gray 14-17</i> <i>clay content increase w/ depth color changes to grayish brown some mottling</i>	<i>decrease in moisture ~21'</i>
	7	12-14	12-85	85			0			
	8	14-16	12-80	80			0			
	9	16-18	12-75	75			0			
	10	18-20	12-80	80			0			
20	11	20-22	12-100	100			0		<i>Sandy clay, fine grained wet, soft, medium plasticity 17-19</i> <i>clayey sand / sandy clay fine grained, wet soft, grayish brown to yellowish brown 19-21</i> <i>Clay w/ some sand, moist, stiff moderate plasticity 21-23</i> <i>Sandy clay, moist, stiff, w/ some well rounded gravel clasts, mottled yellowish brown 23-27.5</i> <i>weathered shale, sandy hard 27.5-28.0'</i>	<i>increase in % of sand w/ depth</i> <i>TD = 28'</i>
	12	22-24	12-85	85			0			
	13	24-26	12-75	75			0			
	14	26-28	12-100	100			0			

Key

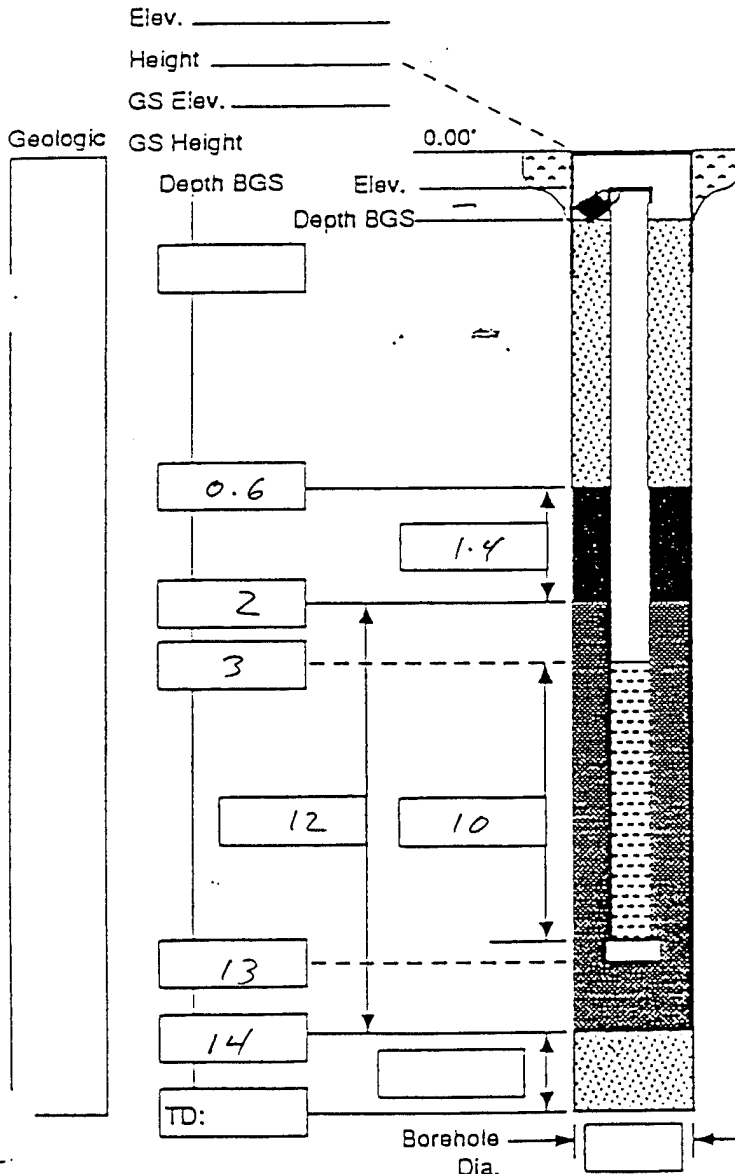
* S/B = Sample reading / background reading;

NA = not analyzed

Form F-1009
9/1/91

Monitoring Well Construction Log - Flush Mount

Project Name: <u>Peoria ANG</u>	Project Number: <u>911655-03</u>	Date: <u>1-16-93</u>
Well: <u>Site 3B</u>	Well ID: <u>3B-MW1</u>	Sheet <u>1</u> of <u>1</u>
Driller: <u>Tim Creek</u>	Borehole Diameter (in): <u>12"</u>	Total Depth (ft): <u>14'</u>
Drilling Agency: <u>Burlington</u>	Date Started: <u>1-16-93</u>	Depth to Water (ft): <u>~4.5'</u>
Drilling Equipment: <u>CME-75</u>	Date Finished: <u>1-16-93</u>	Elevation and Datum: <u>around 64'</u>
Drilling Method: <u>6 1/4 ID. H.S. Augers</u>	Logged by: <u>B. Norton</u>	Checked by: <u>D.J.</u>
Drilling Fluid: <u>—</u>	Number of Samples: <u>—</u>	Date: <u>—</u>



PROTECTIVE CSG

Material / Type: 8"

Diameter: _____

Depth BGS: _____ Weed Hole (Y/N) Y

GUARD POSTS (Y/N) (Y/N)

No.: _____ Type: _____

SURFACE PAD

Composition and Size: Concrete 18" DIA

RISER PIPE

Type: 5.5 steel

Diameter: 2"

Total Length (TOC to TOS): 2.5' (0.5 - 3.0')

Ventilated Cap (Y/N) (Y/N)

GROUT

Composition and Proportions: _____

Tremied (Y/N) _____

Interval BGS: _____

CENTRALIZERS

Depth(s) _____

SEAL

Type: Bentonite

Source: subcontractor

Setup / Hydration Time: 1 hr Vol. Fluid Added 5

Tremied (Y/N) _____

FILTER PACK

Type: silica sand 20/40

Amt. Used: ~66 lbs

Tremied (Y/N) _____

Source: subcontractor

Gr. Size Dist: _____

SCREEN

Type: 5.5 steel

Diameter: 2"

Slot Size and Type: 0.01

Interval BGS: 3 - 13

WELL FOOT (Y/N)

Interval BGS: _____ Length: _____

Bottom Cap (Y/N) _____

BACKFILL PLUG

Material: _____

Setup / Hydration Time: _____

Tremied (Y/N) _____

Form F-11

9/1

Borehole Log

Project Name: <u>Peoria ANG</u>						Project Number: <u>911655-03</u>						
Borehole Location: <u>Site 3B</u>						On Base <input checked="" type="checkbox"/> Off Base <input type="checkbox"/>		Borehole No. <u>3B-mud</u>			Sheet 1 of 1	
Drilling Agency: <u>Burlington</u>						Driller: <u>Tim Crank</u>						
Drilling Equipment: <u>CME-75</u>						Date Started: <u>1-16-93</u>			Total Depth (feet): <u>14'</u>			
Drilling Method: <u>6 1/4 I.D.</u>						CMCCODE: HA <input type="checkbox"/> HS <input checked="" type="checkbox"/> P <input type="checkbox"/>		Date Finished: <u>1-16-93</u>			Depth to Bedrock (feet): <u>-</u>	
Drilling Fluid: <u>-</u>						Number of Samples: <u>-</u>			Depth to Water (feet): <u>~4.5'</u>			
Completion Information: <u>Borehole completed as monitoring well</u>						Borehole Diameter (in): <u>12"</u>			Elevation <u>Ground 644.47</u> and Datum: <u>TOL 645.0</u>			
						Logged by: <u>B. Nester</u>			LTCCODE: BH <input checked="" type="checkbox"/> WL <input checked="" type="checkbox"/>			
						Checked by: <u>DET</u>			Date: _____			

Depth (feet)	Sample					Field Analysis		LOG		Lithologic Description	Remarks [LITHCODE] [STRATORDER]
	Number	Interval	Blow Count	Recovery	Time	FID (ppm) S/B	PID (ppm) S/B	Graphic	USCS or Rock Type		
5	1	X	2 1/4	50	-		0			Concrete 0-1.0 Fill: Gravel w/ fine 1-2' Clay (possible fill) blue gray, moist, med stiff plastic 2-3	
10	2	X	1 1/2	75	-		0			Clay, brown - rust brown moist, stiff to soft slightly mottled, trace of sand 3-5.5	
15										Sandy Clay; moist-wet, soft fine grained, brown - gray brown, med plastic 5.5-8.0	
20										Clayey Sand/Sandy Clay wet, soft - yellowish brown - fine grained. 8-14'	
25											
30											

Key

* S/B = Sample reading / background reading;

NA = not analyzed

Form F-10
4/13/92

BOREHOLE LOG

Project Name: <u>Provia LNG</u>			
Project Number:		Borehole Number: <u>3C-SB1</u>	Sheet <u>1</u> of <u>1</u>
Borehole Location: <u>Site 3-C</u>		Elevation and Datum:	
Drilling Company: <u>Burlington</u>	Driller: <u>T. Crank</u>	Date Started: <u>01-15-93</u>	Date Finished: <u>1-15-93</u>
Drilling Equipment: <u>CME 75</u>		Total Depth (feet): <u>8'</u>	Depth to Bedrock (feet): <u>-</u>
Drilling Method: <u>4 1/4" ID Hollow stem auger</u>		Borehole Diameter: <u>≈ 10"</u>	
Drilling Fluid: <u>-</u>		Depth to Water (feet):	First: <u>228'</u> Compl.: <u>24 hrs.</u>
Completion Information: <u>Borehole grouted to surface at completion</u>		Logged By: <u>B. Norton</u>	Checked by: <u>GFT</u>

Depth (feet)	Description	Lithology	OVA (ppm)	Samples				Remarks
				Number	Type	Blow Count	Drilling Rate/Time	
0-1.0'	Concrete							
1.0-2.0	Gravel							
2-3.5'	Fill: Clay, moist, hard plastic blue to olive gray							
3.5-5.0	Clay, moist, stiff to hard							
5.0-6.0	Clay of some sand fine grained, moist to wet well sorted, dark brown.							
6.0-8.0	increase in % of sand w/ depth							
8.0-10.0								
10.0-12.0								

BOREHOLE LOG

Project Name: <u>Peoria ANG</u>		Borehole Number: <u>3C-SB2</u>		Sheet <u>1</u> of <u>1</u>	
Borehole Location: <u>Site 3C</u>		Elevation and Datum:			
Drilling Company: <u>Burlington</u>		Driller: <u>T. Crank</u>		Date Started: <u>1-15-93</u>	Date Finished: <u>1-15-93</u>
Drilling Equipment: <u>CMS 75</u>		Total Depth (feet): <u>6'</u>		Depth to Bedrock (feet): <u>-</u>	
Drilling Method: <u>4 1/4 ID. Hollow Stem auger</u>		Borehole Diameter: <u>2 1/2"</u>			
Drilling Fluid: <u>-</u>		Depth to Water (feet): <u>First: 6'</u>		Compl.: <u>24 hrs.</u>	
Completion Information: <u>Borehole cased to surface at completion</u>		Logged By: <u>JKL</u>		Checked by: <u>DPJ</u>	

Depth (feet)	Description	Lithology	OVA (ppm)	Samples				Remarks
				Number	Type	Blow Count	Drilling Rate/Time	
0-1.0'	Concrete core							Concrete w/ Rebar
1.0-2.0'	Gravel							
2	Fill: Sand and Gravel, moist lt to dark Brown 2-3.5 ft poorly sorted. Clay, moist, med. stiff lt. Brown to Brown.	0	5	1	8			Core delivered 1357 1.5' recovered
				1	13			
				1	6			
4	Clay, moist to very moist Soft, lt. Brown to olive gray, fine grain well sorted	0	2	5	3			Core Delivered 1407 2 Foot recovered
				1	4			
				2	3			
6								
8								
10								
12								

TD = 6'

BOREHOLE LOG

Project Name: <u>Peoria ANG</u>			
Project Number:		Borehole Number: <u>3C-533</u>	Sheet <u>1</u> of <u>18</u>
Borehole Location: <u>Site 3C</u>		Elevation and Datum:	
Drilling Company: <u>Burlington</u>	Driller: <u>T. Crank</u>	Date Started: <u>01-15-93</u>	Date Finished: <u>01-15-93</u>
Drilling Equipment: <u>CMC 25</u>		Total Depth (feet): <u>12.5</u>	Depth to Bedrock (feet): <u>-</u>
Drilling Method: <u>4 1/4" Hollow Stem Auger</u>		Borehole Diameter: <u>2 1/8"</u>	
Drilling Fluid: <u>-</u>		Depth to Water (feet):	First: <u>~6.5'</u> Compl.: <u>24 hrs.</u>
Completion Information: <u>Borehole grouted to surface at completion</u>		Logged By: <u>PHL B. Winters</u>	Checked by: <u>DRJ</u>

Depth (feet)	Description	Lithology	OVA (ppm)	Samples				Remarks
				Number	Type	Blow Count	Drilling Rate/Time	
	Concrete core 0-1.0'							
	Gravel 1.0-2.0'							
2	Fill - Gravel and Sand, moist, light to dark brown - possibly coated. 2-3.5'		0	1	S	9 19 4 10		Core delivered 1506 2' recovered
4	Clay - Lt. Brown to Olive gray with minor sand. V. stiff, and slightly moist - staining 3.5-4' as above to 4.75'		0	2	S	4 4 5 5		Core delivered 1510 2' recovered
6	Clay - moist, med stiff to soft Lt. Brown to rust slightly mottled. 4.75-5.0 as above - moisture content increase and softness increases to 6'		0	3	S P R	4 w/w w/w		Core delivered 1517 PHL 1-15-93 2' recovered 1.5'
8	Clay - Lt. Brown to rust - V. moist, med. stiff to soft. Slightly mottled 6.0-7.5'							
	Clay - V. moist (wet) V. soft Lt. Brown to Brown red. (rust)							
10	GB-8'							
12								

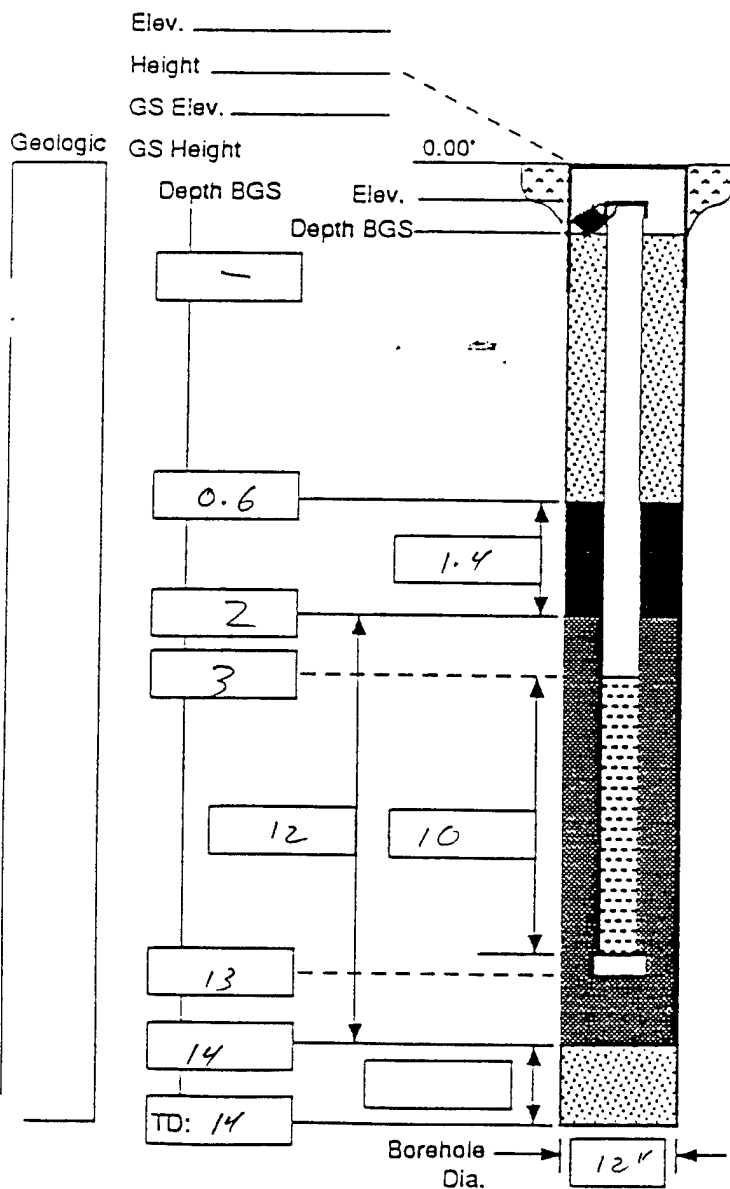
BOREHOLE LOG

Project Name: <u>PEORIA AARC</u>			
Project Number: <u>911655-03</u>		Borehole Number: <u>3C-SB4</u>	
Borehole Location: <u>site 3C</u>		Elevation and Datum:	
Drilling Company: <u>Burlington</u>	Driller: <u>T. C. Clark</u>	Date Started: <u>1-16-73</u>	Date Finished: <u>1-16-73</u>
Drilling Equipment: <u>CME 75</u>	Total Depth (feet): <u>121</u> 116.93		Depth to Bedrock (feet): <u>-</u>
Drilling Method: <u>1 1/4 ID H Stem Augers</u>		Borehole Diameter: <u>10"</u>	
Drilling Fluid: <u>N/A</u>	Depth to Water (feet):	First: <u>28'</u>	Compl.: <u>24 hrs.</u>
Completion Information: <u>Borehole grouted to surface at completion.</u>		Logged By: <u>B. Norton</u>	Checked by: <u>DEJ</u>

Depth (feet)	Description	Lithology	OVA (ppm)	Samples				Remarks
				Number	Type	Blow Count	Drilling Rate/Time	
0-0.3'	Asphalt							
0.3-2.0	Gravel subbase poorly sorted							
2	Clay: moist, stiff, w/ some oxide nodules, yellowish brown 2.0-5.5		0			4/8/10	*	* Sample selected for analysis
4	Clay; moist, stiff, plastic, clastic gray to blue gray w/ few concretions 5.5-6.5		0			4/6/10		
6	Clay: moist, stiff, w/ trace of sand, blue gray to brown, plastic 6.5-8.5		0			3/7/9	*	Increase in % of sand w/ depth
8	Sand clay / etc fine grained, moist to wet w/ sorted sand 8.5-9.5		0			3/5/8		possible perched zone at 8.5
10	Clay w/ sand / sandy clay, yellowish brown, moist, medium stiff, w/ few concretions w/ few gravel etc. concretions slightly mottled sand is very fine grained		0			3/6/7		no samples collected
12								

Monitoring Well Construction Log - Flush Mount

Project Name: <u>Peoria ANG</u>	Project Number: <u>911655-03</u>	Date: <u>1-16-93</u>
Well: <u>Site 3C</u>	Well ID: <u>3C-MW1</u>	Sheet <u>1</u> of <u>1</u>
Driller: <u>Tim Crank</u>	Borehole Diameter (in): <u>12"</u>	Total Depth (ft): <u>14'</u>
Drilling Agency: <u>Burlington</u>	Date Started: <u>1-16-93</u>	Depth to Water (ft): <u>~3.5'</u>
Drilling Equipment: <u>CME-75</u>	Date Finished: <u>1-16-93</u>	Elevation and Datum: <u>4250.00</u>
Drilling Method: <u>6 1/4 ID. H.S. Augers</u>	Logged by: <u>B. HORTON</u>	Checked by: <u>ME</u>
Drilling Fluid: <u>-</u>	Number of Samples: <u>-</u>	Date: <u>-</u>



PROTECTIVE CSG

Material / Type: _____

Diameter: 6" cherty box

Depth BGS: _____ Weep Hole (Y/N) _____

GUARD POSTS (Y/N) _____

No.: _____ Type: _____

SURFACE PAD

Composition and Size: Concrete 18" DIA

RISER PIPE

Type: S. Steel

Diameter: 2"

Total Length (TOC to TOS): 2.5'

Ventilated Cap (Y/N) _____

GROUT

Composition and Proportions: _____

Tremied (Y/N) _____

Interval BGS: _____

CENTRALIZERS

Depth(s): _____

SEAL

Type: Portland

Source: Subcontractor

Setup / Hydration Time: 1hr Vol. Fluid Added 5gal

Tremied (Y/N) _____

FILTER PACK

Type: silice sand 20/40

Amt. Used: ~ 5.7 bags

Tremied (Y/N) _____

Source: Subcontractor

Gr. Size Dist: 20/40

SCREEN

Type: S. Steel

Diameter: 2"

Slot Size and Type: 0.010

Interval BGS: 3-13

WELL FOOT (Y/N)

Interval BGS: _____ Length: _____

Bottom Cap (Y/N) _____

BACKFILL PLUG

Material: _____

Setup / Hydration Time: _____

Tremied (Y/N) _____

Form F-1023

3/1/91

BOREHOLE LOG

Project Name: PEORIA HNG			
Project Number:		Borehole Number: 3C-MW1	Sheet 1 of 1
Borehole Location: Site 3C MW1		Elevation and Datum: Ground 641.76 TOC 642.3	
Drilling Company: Burlington	Driller: T. Crank	Date Started: 1-16-93	Date Finished: 1-16-93
Drilling Equipment: CME-75		Total Depth (feet): 14'	Depth to Bedrock (feet): —
Drilling Method: 6 1/4 I.D. H.S. Augers		Borehole Diameter: 10"	
Drilling Fluid: N/A		Depth to Water (feet):	First: 3.5' Compl.: 24 hrs.
Completion Information: Borehole completed as monitoring well at completion		Logged By: B. Norton	Checked by: DJ

Depth (feet)	Description	Lithology	OVA (ppm)	Samples				Remarks
				Number	Type	Blow Count	Drilling Rate/Time	
0-1.0	Concrete							
1.0-3.0	Fill: Gravel poorly sorted mixed w/ some fines.							
3.0-4.0	Clay w/ some sand, moist to wet, yellowish brown-brown plastic, w/ some concretions				ST	1		saturated at ~ 35'
4.0-6.0	increase in % of sand w/ depth							
6.0-8.0	clayey sand, grayish brown fine grained, low plasticity saturated, soft			0	SP	2 2/3	3	
8.0-10.0								
10.0-12.0								

Appendix E: Soil Gas, Groundwater, and Soil Screening Results



Shallow Soil Gas
and Groundwater Investigation

Illinois Air National Guard
Peoria, Illinois

November 4 - 9, 1992



Shallow Soil Gas
and Groundwater Investigation

Illinois Air National Guard
Peoria, Illinois

November 4 - 9, 1992

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2-92-866-S



TABLE OF CONTENTS

1.0	ILLINOIS AIR NATIONAL GUARD SITE INVESTIGATION.....	1
1.1	Objectives.....	1
1.2	Overview of Results.....	1
2.0	SITE DESCRIPTION.....	4
3.0	SOIL GAS SAMPLING PROCEDURES.....	4
4.0	GROUNDWATER SAMPLING PROCEDURES.....	4
5.0	ANALYTICAL PARAMETERS.....	5
5.1	Analyte Class.....	6
5.2	Chromatographic System.....	6
5.3	Analyses.....	8
6.0	QUALITY ASSURANCE AND QUALITY CONTROL.....	10
7.0	RESULTS.....	14
	APPENDIX A Regression Analysis.....	A-1
	APPENDIX B Condensed Data.....	B-1
	APPENDIX C Figures.....	C-1

TABLES

Table 1.	Soil Gas Summary.....	2
Table 2.	Water Sample Summary.....	3
Table 3.	Detection Limits for Soil Gas Compounds.....	9
Table 4.	Detection Limits for Groundwater Compounds.....	10
Table 5.	Quality Assurance Samples.....	12



1.0 ILLINOIS AIR NATIONAL GUARD SITE INVESTIGATION

Tracer Research Corporation (Tracer Research) performed a shallow soil gas and groundwater investigation at the Illinois Air National Guard site in Peoria, Illinois. The investigation was conducted November 4 through 9, 1992, for Earth Technology Corporation of Oak Ridge, Tennessee

1.1 Objective

The purpose of the investigation was to evaluate possible subsurface contamination in five areas of concern from possible solvent dumping and underground storage tanks by screening shallow soil gas and groundwater for the presence of volatile organic chemicals (VOCs). Soil gas and groundwater samples were collected and analyzed for the following halocarbons and hydrocarbons:

benzene, toluene, ethylbenzene, and xylenes (BTEX)

total volatile hydrocarbons (TVHC)

total dichloroethene (Total DCE)

(1,1 DCE, cis 1,2 DCE, trans 1,2 DCE)

1,1,1 trichloroethane (TCA)

trichloroethene (TCE)

tetrachloroethene (PCE)

1.2 Overview of Results

For this investigation, 67 soil gas and 18 groundwater samples were collected from 74 locations. A summary of the results of the soil gas and groundwater investigation is presented in tables on the following pages.



Table 1. Soil Gas Sample Summary

Compound	# of samples in which compound was detected	Low conc. ug/L	High conc. ug/L	Sample(s) with high conc.
Benzene	0	NA	NA	NA
Toluene	10	0.4	2	SG-33-1'
Ethylbenzene	0	NA	NA	NA
Xylenes	1	NA	7	SG-42-1.5'
TVHC	27	0.5	130	SG-59-3'
Total DCE	9	0.04	2	SG-59-3'
TCA	53	0.0004	0.008	SG-36-3'
TCE	27	0.0008	4	SG-43-1.5'
PCE	13	0.0004	0.2	SG-52-3'

NA = Not Applicable



Table 2. Water Sample Summary

Compound	# of samples in which compound was detected	Low conc. ug/L	High conc. ug/L	Sample(s) with high conc.
Benzene	0	NA	NA	NA
Toluene	0	NA	NA	NA
Ethylbenzene	0	NA	NA	NA
Xylenes	0	NA	NA	NA
TVHC	4	7	19	WS-13-10'
Total DCE	5	0.6	8	WS-13-10'
TCA	17	0.004	0.02	WS-12-10'
TCE	8	0.02	30	WS-13-10'
PCE	8	0.005	0.02	WS-12-10'

NA = Not Applicable



2.0 SITE DESCRIPTION

The subsurface of the site was characterized by silty hard packed loess. Groundwater was encountered as shallow as 5 feet below ground surface (bgs). The direction of groundwater flow was unknown.

3.0 SOIL GAS SAMPLING PROCEDURES

Soil gas sampling probes consisted of 7- and 14- foot lengths of 3/4-inch diameter hollow steel pipe. The probes were fitted with detachable drive tips and pushed or pounded hydraulically to depths of approximately 1 to 10 feet bgs.

The aboveground end of each probe was fitted with an aluminum reducer (manifold) and a length of polyethylene tubing leading to a vacuum pump. Soil gas was pulled by the vacuum pump into the probe. Samples were collected in a glass syringe by inserting a syringe needle through a silicone rubber segment in the evacuation line and down into the steel probe. The vacuum was monitored by a vacuum gauge to ensure an adequate gas flow from the vadose zone was maintained.

The volume of air within the probe was purged by evacuating 2 to 5 probe volumes of gas. The evacuation time in minutes versus the vacuum in inches of mercury (Hg) was used to calculate the necessary evacuation time. The vacuum in inches Hg was recorded at each sampling location.

Probe vacuums ranged from 3 to 19 inches Hg. The maximum capacity of the pump was approximately 22 inches Hg.

4.0 GROUNDWATER SAMPLING PROCEDURES

When groundwater was encountered, water samples were collected. Eighteen water samples were collected and analyzed for the target compounds.

Sampling probes consisted of 7- and 14-foot lengths of 3/4-inch diameter hollow steel pipe. Groundwater samples were collected at depths of approximately 5 to 11 feet bgs.



The hollow probes with detachable drive points were advanced below the water table. Once at the desired depth, the probes were withdrawn several inches to permit water to flow into the resulting hole. The aboveground end of the sampling probes were fitted with a vacuum adaptor (metal reducer) and a length of polyethylene tubing leading to a vacuum pump. A vacuum of up to 22 inches Hg was applied to the interior of the probe for 10 to 15 minutes or until water was drawn up the probe. The water accumulated in the hole was removed by vacuum through a 1/4-inch polyethylene tube inserted down into the probe to the bottom of the hole. Because the water is induced to flow into a very narrow hole, it can be sampled with little exposure to air and, consequently, the loss of volatile compounds by evaporation is reduced. The polyethylene tubing was used only once and discarded to avoid cross contamination.

Groundwater samples were collected in 40 ml VOA vials that were filled to exclude air and capped with Teflon-lined septa caps. Approximately half of the liquid in the bottle was decanted, the vials were shaken vigorously, and a sample of the headspace from the container was injected into the gas chromatograph (GC).

Headspace analysis is the preferred technique when a large number of water samples are to be performed daily. The method is more time efficient for the measurement of volatile organics than direct injection of the water sample into the GC because there is less chance of semi-volatile and non-volatile organics contaminating the system. Depending upon the partitioning coefficient of a given compound, the headspace analysis method may be more sensitive than the direct injection method. The precision and accuracy of both methods are similar.

5.0 ANALYTICAL PARAMETERS

Three to ten milliliters (mL) of soil gas and 40 mL of groundwater were collected for immediate analyses in the Tracer Research analytical van. Analytical instruments were calibrated daily using fresh working standards made from National Institute of Sciences and Technology traceable standards and reagent blanked solvents. At the beginning of the job, a three point calibration was performed on the GC. The data are presented in Appendix A.



The GC was calibrated for headspace analysis by decanting 20 ml of the known standard, leaving approximately the same amount of headspace as in the water headspace samples. The standard bottle was resealed and shaken vigorously for 30 seconds. An analysis of the headspace in the bottle determined the Response Factor (RF) which was then used to accurately estimate the sample concentrations.

5.1 Analyte Class

The soil gas and groundwater samples were analyzed for the following analyte classes and compounds:

Analyte Class: Hydrocarbon

BTEX

TVHC

Analyte Class: Halocarbon

Total DCE

TCA

TCE

PCE

5.2 Chromatographic System

A Hewlett Packard 5890, Series II, gas chromatograph, equipped with a flame ionization detector (FID), an electron capture detector (ECD), and two computing integrators, was used for the soil gas and groundwater headspace analyses.

Hydrocarbons and halocarbons were separated in the GC on two 6 foot by 1/8 inch outer diameter (OD) packed analytical column (10% OV101 stationary phase bonded to 80/100 mesh Chromosorb W support) in a temperature controlled oven. Nitrogen was used as the carrier gas. The following paragraphs explain the GC, FID, and ECD processes.



GC Process

The soil gas and groundwater headspace vapor is injected into the GC where it is swept through the analytical column by the carrier gas. The detector senses the presence of a component different from the carrier gas and converts that information to an electrical signal. The components of the sample pass through the column at different rates, according to their individual properties, and are detected by the detector. Compounds are identified by the time it takes them to pass through the column (retention time).

FID Process

The FID utilizes a flame produced by the combustion of hydrogen and air. When a component, which has been separated on the GC analytical column, is introduced into the flame, a large increase in ions occurs. A collector with a polarizing voltage is applied near the flame and the ions are attracted and produce a current, which is proportional to the amount of the sample compound in the flame. The electrical current causes the computing integrator to record a peak on a chromatogram. By measuring the area of the peak and comparing that area to the integrator response of a known aqueous standard, the concentration of the analyte in the sample is determined.

ECD Process

The ECD captures low energy thermal electrons that have been ionized by beta particles. The flow of these captured electrons into an electrode produces a small current, which is collected and measured. When the halogen atoms (halocarbons) are introduced into the detector, electrons that would otherwise be collected at the electrode are captured by the sample, resulting in decreased current. The current causes the computing integrator to record a peak on a chromatogram. The area of the peak is compared to the peak generated by a known standard to determine the concentration of the analyte.



5.3 Analyses

Subsamples (replicate injections) of each soil gas and groundwater headspace sample were injected into the GC in volumes of 50 to 1,000 microliters (μL).

The detection limits for target compounds depend on the sensitivity of the detector to the individual compound as well as the volume of the injection. The detection limits of the target compounds were calculated from the response factor, the sample size, and the calculated minimum peak size (area) observed under the conditions of the analyses. If any compound was not detected in an analysis, the detection limit is given as a "less than" value, e.g., <0.1 micrograms per liter ($\mu\text{g/L}$). The tables on the following pages present the approximate detection limits of the soil gas and groundwater targeted compounds.



Table 3. Detection Limits for Soil Gas Compounds

Compound	Detection Limits ($\mu\text{g/L}$)
Benzene	0.04
Toluene	0.05
Ethyl Benzene	0.1
Xylene	0.2
TVHC	0.3
Total DCE	0.01
TCA	0.0004
TCE	0.0003
PCE	0.0003



Table 4. Detection Limits for Groundwater Compounds

Compound	Detection Limits (ug/L)
Benzene	0.5
Toluene	1
Ethyl Benzene	2
Xylene	5
TVHC	6
Total DCE	0.06
TCA	0.004
TCE	0.004
PCE	0.003

6.0 QUALITY ASSURANCE AND QUALITY CONTROL

Tracer Research's Quality Assurance (QA) and Quality Control (QC) program was followed to maintain data that was reproducible through the investigation. An overview presenting the significant aspects of this program is presented on the following pages.



Soil Gas/Groundwater Sampling Quality Assurance

To ensure consistent collection of samples, the following procedures are performed:

- Sampling Manifolds

Tracer Research's custom designed sampling manifold connects the sample probe to the vacuum line and pump. The manifold is designed to eliminate sample exposure to the polymeric (plastic) materials that connect the probe to the vacuum pump.

The sampling manifold is attached to the end of the probe, forming an air tight union between the probe and the silicone tubing septum. The septum connects the manifold to the pump vacuum line and permits syringe sampling.

This sampling system allows the sample to be taken upstream of the sampling pump, manifold, and septum. Since cross contamination of sampling equipment can be a major problem, Tracer Research replaces the materials (probe and syringe), between sampling points, that contact the soil gas before or during sampling.

-Sampling Probes

Steel probes are used only once each day. To eliminate the possibility of cross contamination, they are washed with high pressure soap and hot water spray, or steam-cleaned. Enough sampling probes are carried on each van to avoid the need to re-use any during the day.

-Glass Syringes

Glass syringes are used for only one sample a day and are washed and baked out at night. If they must be used twice, they are purged with carrier gas (nitrogen) and baked out between probe samplings.

- Polyethylene Tubing and VOA Vials

Polyethylene tubing and VOA vials used for the collection of groundwater samples are used only once and then discarded to avoid cross contamination.



-Sampling Efficiency

Soil gas/groundwater pumping is monitored by a vacuum gauge to ensure that an adequate flow of gas from the soil is maintained. A reliable gas sample can be obtained if the sample vacuum gauge reading is at least 2 inches Hg less than the maximum measured vacuum of the vacuum pump.

Analytical Quality Assurance Samples

Quality assurance samples are performed at the below listed, or greater, frequencies. The frequency depends on the number of soil gas samples analyzed and the length of time of the survey:

Table 5. Quality Assurance Samples

Sample type	Frequency
Ambient Air Samples	2 per day or per site
Analytical Method Blanks	5% (1 per 20 samples or 1 a day)
Continuing Calibration Check	20% (1 every 5 samples)
Field System Blank	10% (1 every 10 samples or 1 a day)
Reagent Blank	1 per set of working standards
Replicate Samples	100% of all soil gas samples



The ambient air samples are obtained on site by sampling the air immediately outside the mobile analytical van and directly injecting it into the GC. Analytical method blanks are taken to demonstrate that the analytical instrumentation is not contaminated. These are performed by injecting carrier gas (nitrogen) into the GC with the sampling syringe. Subsampling syringes are also checked in this fashion.

The injector port septa through which soil gas samples are injected into the GC are replaced daily to prevent possible gas leaks from the chromatographic column. All sampling and subsampling syringes are decontaminated after use and are not used again until they have been decontaminated by washing in anionic detergent and baking at 90°C.

Field system blanks are analyzed to check for contamination of the sampling apparatus, e.g., probe and sampling syringe. A sample is collected using standard soil gas sampling procedures, but without putting the probe into the ground. The results are compared to those obtained from a concurrently sampled ambient air analysis.

If the blanks detect compounds of interest at concentrations that indicate equipment contamination or concentrations that exceed normal background levels (ambient air analysis), corrective actions are performed. If the problem cannot be corrected, an out-of-control event is documented and reported.

A reagent blank is performed to ensure the solvent used to dilute the stock standards is not contaminated. Analytical instruments are calibrated daily using fresh working standards made from National Institute of Sciences and Technology (NIST) traceable standards and reagent blanked solvents. These standard are compared to the three point calibration to insure that all standards match within 20 percent.

Quantitative precision is assured by replicating analysis 100 percent of the soil gas samples. Replicate analyses are performed by subsampling vapors from the original syringe.



7.0 RESULTS

Contour maps are provided for TVHC, Total DCE, and TCE. These three compounds were detected in a majority of samples at elevated concentrations (greater than 0.1 $\mu\text{g/L}$) to allow contouring.

The analytical results from this soil gas investigation are condensed in Appendix A. The data are presented by location and by analyte concentration. When the compound was not detected, the detection limit is presented as a "less than" value, e.g., <0.1 $\mu\text{g/L}$.

Samples are identified by sample type, sample location, and sampling depth. For example, SG-1-2' represents a soil gas sample collected from location 1 at a depth of 2 feet below grade. Sample WS-3 represents a water sample collected from location 3.

TVHC was detected at 27 locations. At Site One the predominant location of hydrocarbons are to the east and south of Building Two. Sample location SG-59 contained the highest concentration of hydrocarbons (130 $\mu\text{g/L}$). A smaller area of TVHC is located south of Building Three near a possible underground storage tank (UST). At Site Two, detected hydrocarbons ranged from 2 to 8 $\mu\text{g/L}$. Several small pockets of hydrocarbons were detected throughout Site Three. Detected hydrocarbons ranged from 1 to 83 $\mu\text{g/L}$.

Total DCE contours are provided for Site One only. The main area of detected Total DCE is located to the east of Building Two. Total DCE was also detected in three isolated water samples and one soil gas sample at Site Two. The concentration detected in the samples ranged from 0.05 to 3 $\mu\text{g/L}$. Two water samples at Site Three contained Total DCE (WS-4 and WS-13). Sample SG-29 located between Building 23 and 23B contained 0.07 $\mu\text{g/L}$.

TCE contours are provided for Site One. The area of highest detected TCE is anchored by sample SG-43 (4 µg/L). Detected concentrations of TCE extend east of Building Two and to the south along the Apron. Small concentrations of TCE were also found throughout Site Two and Three.

TCA contours are not provided because most concentrations detected are at or near background levels. TCA concentrations ranged from 0.0004 to 0.008 µg/L. Background levels of TCA are approximately 0.0008 µg/L.

PCE was also found throughout each site in the soil gas and water samples collected. Concentrations of PCE ranged from 0.0004 to 0.2 µg/L.



APPENDIX A Regression Analysis

3-POINT CALIBRATION
HAZWARP SITE
JOB # 2-92-866-S
EARTH TECHNOLOGY CORPORATION
182nd TACTICAL AIR SUPPORT GROUP
AIR NATIONAL GUARD
PEORIA, ILLINOIS

COMPOUND	CONC. ug/	AREA
BENZENE	1000	557987
	10000	5063683
	50	49846

Regression Output:

Constant Regression Output: 39285.96
Std Err of Y Est 21773.86
R Squared 0.999969
No. of Observations 3
Degrees of Freedom 1
Degrees of Freedom 1
X Coefficient(s) 502.5935
Std Err of Coef. 2.803928

COMPOUND	CONC.	AREA
TOLUENE	1000	524764
	10000	4728685
	50	45322

Regression Output:

Constant 37841.65
Std Err of Y Est 23884.82
R Squared 0.999957
No. of Observations 3
Degrees of Freedom 1
X Coefficient(s) 469.253
Std Err of Coef. 3.075795

COMPOUND	CONC.	AREA
E-BENZENE	1000	392603
	10000	3709630
	50	27642

Regression Output:

Constant 15809.6
Std Err of Y Est 9923.60
R Squared 0.999988
No. of Observations 3
Degrees of Freedom 1
X Coefficient(s) 369.452
Std Err of Coef. 1.277923

COMPOUND	CONC.	AREA
XYLENE	1000	333727
	10000	3323046
	50	19909

Regression Output:

Constant 2536.18
Std Err of Y Est 1151.743
R Squared 1
No. of Observations 3
Degrees of Freedom 1
X Coefficient(s) 332.0428
Std Err of Coef. 0.148317

COMPOUND	CONC.	AREA
TVHC	1000	456579
	10000	4206526
	50	35679

Regression Output:

Constant 25996.5
Std Err of Y Est 16776.86
R Squared 0.999973
No. of Observations 3
Degrees of Freedom 1
X Coefficient(s) 418.1714
Std Err of Coef. 2.160459

COMPOUND	CONC.	AREA
TRANS DCE	400	224842
	4000	12950000
	20	71155

Regression Output:

Constant 477631.0
Std Err of Y Est 701028.2
R Squared 0.99482
No. of Observations 3
Degrees of Freedom 1
X Coefficient(s) 3130.47
Std Err of Coef. 225.6822

COMPOUND	CONC.	AREA
TCA	5	2115426
	50	16273272
	0.25	61334

Regression Output:

Constant 231577.1
Std Err of Y Est 374486.2
R Squared 0.9991
No. of Observations 3
Degrees of Freedom 1
X Coefficient(s) 321362.9
Std Err of Coef. 9644.976

COMPOUND	CONC.	AREA
TCE	10	3042998
	100	25494512
	0.5	99521

Constant Regression Output:

Constant 229888.8
Std Err of Y Est 383815.5
R Squared 0.999618
No. of Observations 3
Degrees of Freedom 1
X Coefficient(s) 252917.3
Std Err of Coef. 4942.628

COMPOUND	CONC.	AREA
PCE	5	2999933
	50	302629
	0.25	809

Regression Output:

Constant 52157.5
Std Err of Y Est 27554.1
R Squared 0.999999
No. of Observations 3
Degrees of Freedom 1
X Coefficient(s) 50634.3
Std Err of Coef. 709.6733



APPENDIX B Condensed Data

TRACER RESEARCH CORPORATION - ANALYTICAL RESULTS
Earth Technology/ Air National Guard/ Peoria, Illinois/ 2-92-866-S

11/04/92

SAMPLE	BENZENE µg/L	TOLUENE µg/L	ETHYL BENZENE µg/L	XYLENE µg/L	TVHC µg/L	TOTAL DCE µg/L	TCA µg/L	TCE µg/L	PCE µg/L
AIR	<0.05	<0.1	<0.4	<0.5	<0.5	<0.03	<0.0004	<0.0008	<0.0008
SG-1-2'	<0.1	<0.3	<0.7	<1	2	<0.03	<0.0004	<0.0008	<0.0008
SG-2-1.5'	<0.05	<0.1	<0.4	<0.5	<0.5	<0.03	<0.0004	<0.0008	<0.0008
SG-3-2'	<0.05	<0.1	<0.4	<0.5	2	<0.03	<0.0004	<0.0008	<0.0008
SG-4-2'	<0.05	<0.1	<0.4	<0.5	1	<0.03	<0.0004	<0.0008	<0.0008
SG-5-2'	<0.05	<0.1	<0.4	<0.5	<0.5	<0.03	<0.0004	<0.0008	<0.0008
AIR	<0.05	<0.1	<0.4	<0.5	<0.5	INT	<0.0004	<0.0008	<0.0008
SG-6-3'	<0.05	<0.1	<0.4	<0.5	1	<0.07	0.001	0.003	0.03
SG-7-2'	<0.05	<0.1	<0.4	<0.5	20	<0.07	0.0004	0.008	0.004
SG-8-3'	<0.05	<0.1	<0.4	<0.5	<0.5	<0.07	0.004	<0.002	0.02
SG-9-3'	<5	<6	<0.4	<0.5	83	<0.07	0.0007	0.03	0.004
SG-10-1.5'	<0.05	<0.1	<0.4	<0.5	<0.5	<0.07	0.0006	0.0008	0.0004
SG-11-3'	<0.05	<0.1	<0.4	<0.5	<0.5	<0.07	0.001	<0.0004	0.0006
SG-12-1.5'	<0.05	<0.1	<0.4	<0.5	<0.5	<0.07	0.0005	<0.0004	<0.0004
SG-13-2'	<0.05	<0.1	<0.4	<0.5	<0.5	<0.03	0.0004	<0.0008	<0.0008
AIR	<0.05	<0.1	<0.4	<0.5	<0.5	<0.03	<0.0004	<0.0008	<0.0008

7-22

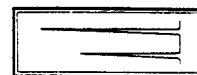
INT = Interference

Analyzed by: D. Bonner

Proofed by: M. Sullivan

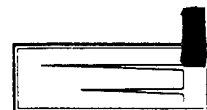
TRACER RESEARCH CORPORATION - ANALYTICAL RESULTS
Earth Technology/ Air National Guard/ Peoria, Illinois/ 2-92-866-S
11/05/92

SAMPLE	ETHYL			TOTAL DCE µg/L	TCA µg/L	TCE µg/L	PCE µg/L
	BENZENE µg/L	TOLUENE µg/L	BENZENE µg/L				
AIR	<0.04	<0.1	<0.3	<0.02	<0.0003	<0.0006	<0.0008
SG-14-3'	<0.2	<0.4	<0.9	<0.02	0.0009	<0.0005	<0.0006
SG-15-1.5'	<0.04	<0.1	<0.3	<0.01	0.0005	0.001	<0.0004
SG-16-2'	<0.04	<0.1	<0.3	<0.01	0.0006	<0.0003	<0.0004
SG-17-1.5'	<0.09	<0.2	<0.5	<0.01	0.0008	<0.0003	<0.0004
AIR	<0.04	<0.1	<0.3	<0.005	<0.0003	<0.0001	<0.0008
SG-18-1.5'	<0.04	<0.1	<0.3	<0.01	0.0007	<0.0003	<0.0004
SG-19-1.5'	<0.04	<0.1	<0.3	<0.01	0.0006	<0.0003	<0.0004
SG-20-1.5'	<0.04	<0.1	<0.3	<0.01	0.0006	<0.0003	<0.0004
SG-21-2'	<0.04	<0.1	<0.3	<0.01	0.0006	<0.0003	<0.0004



TRACER RESEARCH CORPORATION - ANALYTICAL RESULTS
 Earth Technology/ Air National Guard/ Peoria, Illinois/ 2-92-866-S
 11/05/92

SAMPLE	BENZENE µg/L	TOLUENE µg/L	ETHYL BENZENE		TVHC µg/L	TOTAL DCE µg/L	TCA µg/L	TCE µg/L	PCE µg/L
			µg/L	µg/L					
WS-1-5'	<0.9	<2	<4	<9	<9	<0.4	0.009	0.4	<0.02
WS-2-5'	<0.9	<2	<4	<9	<9	<0.06	0.006	<0.004	<0.003
WS-3-5'	<0.9	<2	<4	<9	<9	<0.06	0.004	<0.004	0.006
WS-4-10'	<0.9	<2	<4	<9	<9	7	0.006	6	<0.003



Tracer Research Corporation

TRACER RESEARCH CORPORATION - ANALYTICAL RESULTS
Earth Technology/ Air National Guard/ Peoria, Illinois/ 2-92-866-S
11/06/92

SAMPLE	ETHYL				TOTAL		TCA µg/L	TCE µg/L	PCE µg/L
	BENZENE µg/L	TOLUENE µg/L	BENZENE µg/L	XYLENE µg/L	TVHC µg/L	DCE µg/L			
AIR	<0.04	<0.09	<0.3	<0.3	<0.4	<0.01	0.0005	<0.0003	<0.0003
SG-22-3'	<0.04	<0.09	<0.3	<0.3	<0.4	<0.02	0.001	<0.0005	<0.0006
SG-23-3'	<0.04	<0.09	<0.3	<0.3	<0.4	<0.02	0.001	<0.0005	<0.0006
SG-24-3'	<0.04	0.4	<0.3	<0.3	0.5	<0.01	0.001	0.001	<0.0003
SG-25-1'	<0.08	1	<0.3	<0.3	5	<0.01	0.001	0.0009	<0.0006
SG-26-3'	<0.04	0.6	<0.3	<0.3	<0.4	<0.01	0.0009	<0.0003	<0.0003
AIR	<0.04	0.6	<0.3	<0.3	0.8	<0.06	0.008	<0.003	<0.003
SG-27-1.5'	<0.04	0.5	<0.3	<0.3	2	<0.01	0.001	<0.0005	<0.0006
SG-28-1.5'	<0.04	0.4	<0.3	<0.3	0.5	<0.01	0.001	<0.0005	<0.0006
SG-29-3'	<0.04	0.4	<0.3	<0.3	0.5	0.07	0.0005	<0.0003	0.001
SG-30-1'	<0.04	0.4	<0.3	<0.3	0.5	<0.01	0.001	<0.0003	<0.0003
AIR	<0.04	<0.09	<0.2	<0.3	<0.4	<0.06	0.0008	<0.0003	<0.0003
SG-31-1'	<0.02	<0.05	<0.1	<0.2	5	0.05	0.0009	0.02	0.03
SG-32-3'	<0.04	0.7	<0.2	<0.3	2	<0.01	0.0008	0.001	<0.0003
SG-33-1'	<0.04	2	<0.2	<0.3	5	<0.01	0.0008	<0.0003	<0.0003
SG-34-1.5'	<0.04	<0.09	<0.2	<0.3	<0.6	<0.01	0.0009	0.002	<0.0003
SG-35-1'	<0.02	1	<0.1	<0.2	5	<0.01	0.0008	<0.0003	<0.0003
AIR	<0.02	<0.05	<0.1	<0.2	<1	<0.006	0.0005	<0.001	<0.0008
SG-36-3'	<0.02	<0.05	<0.1	<0.2	<0.5	<0.01	0.008	0.004	0.001
SG-37-2'	<0.02	<0.05	<0.1	<0.2	<0.3	<0.01	0.0008	<0.0003	<0.0003
SG-38-1.5'	<0.02	<0.05	<0.1	<0.2	<0.6	<0.01	0.0008	<0.0003	<0.0003
SG-39-1.5'	<0.02	<0.05	<0.1	<0.2	2	<0.01	0.0005	<0.0003	<0.0003
SG-40-2'	<0.02	<0.05	<0.1	<0.2	4	<0.01	0.0005	<0.0003	<0.0003

Analyzed by: D. Bonner
Proofed by: MM. Skidmore

TRACER RESEARCH CORPORATION - ANALYTICAL RESULTS
Earth Technology/ Air National Guard/ Peoria, Illinois/ 2-92-866-S

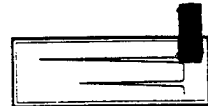
11/07/92

SAMPLE	ETHYL			TOTAL DCE µg/L	TVHC µg/L	TCA µg/L	TCE µg/L	PCE µg/L
	BENZENE µg/L	TOLUENE µg/L	BENZENE µg/L					
AIR	<0.04	<0.09	<0.2	<0.01	<0.6	0.0007	<0.0003	<0.0004
SG-41-2'	INT	INT	<0.2	<0.02	<1	0.0005	<0.0007	<0.0008
SG-42-1.5'	INT	INT	<0.8	<0.02	25	<0.0006	<0.0007	<0.0008
SG-43-1.5'	<0.04	<0.09	<0.2	0.4	2	<0.0003	4	0.01
SG-44-2'	INT	INT	<0.2	<0.1	6	<0.001	0.1	<0.004
SG-45-2'	<0.04	<0.09	<0.2	<0.02	<0.3	0.0007	<0.0007	<0.0008
AIR	<0.04	<0.09	<0.2	<0.01	<0.3	0.0008	<0.0003	<0.0004
SG-46-1'	<0.04	<0.09	<0.2	<0.02	<0.3	<0.0006	0.009	<0.0008
SG-47-3'	INT	INT	<0.2	<0.02	<0.3	0.0008	0.005	<0.0008
SG-48-3'	INT	INT	<0.2	<0.02	<0.3	<0.0006	0.03	<0.0008
SG-49-3'	<0.8	<2	<4	<0.02	<6	<0.0006	0.007	<0.0008
SG-50-3'	<0.04	<0.09	<0.2	<0.02	<0.3	<0.0006	0.001	<0.0008
AIR	<0.04	<0.09	<0.2	<0.02	0.6	0.001	<0.0007	<0.0008
SG-51-2.5'	<0.04	<0.09	<0.2	<0.02	0.5	0.001	0.01	<0.002
SG-52-3'	<0.04	<0.09	<0.2	0.08	0.7	0.003	0.003	0.2
SG-53-1.5'	<0.04	<0.09	<0.2	<0.02	2	0.001	<0.0007	<0.0008
SG-54-2'	INT	INT	<0.4	<0.02	<0.3	0.001	0.005	<0.0008
SG-55-3'	<0.8	<2	<2	<0.02	<2	0.002	<0.0007	<0.0008

INT = Interference

Analyzed by: D. Bonner

Proofed by: M. Shuler



TRACER RESEARCH CORPORATION - ANALYTICAL RESULTS
 Earth Technology/ Air National Guard/ Peoria, Illinois/ 2-92-866-S
 11/07/92

SAMPLE	BENZENE µg/L	TOLUENE µg/L	ETHYL		TVHC µg/L	TOTAL DCE µg/L	TCA µg/L	TCE µg/L	PCE µg/L
			BENZENE µg/L	XYLENE µg/L					
SG-56-3'	<0.8	<2	<1	<2	<2	<0.02	0.001	<0.0007	<0.0008
SG-57-3'	<0.4	<0.9	<2	<3	<3	0.04	0.001	0.02	<0.0008
SG-58-3'	<0.04	<0.09	<0.2	<0.3	<1	0.1	0.001	<0.0007	0.002
SG-59-3'	<11	<13	<8	<1	130	2	<0.0003	0.01	<0.0008
SG-60-3'	<0.4	<0.9	<2	<0.008	17	0.4	0.001	0.2	<0.0008
AIR	<0.04	<0.09	<0.2	<0.0008	<0.3	<0.01	<0.0001	<0.0003	<0.0004

INT = Interference

Analyzed by: D. Bonner

Proofed by: M. Stiver

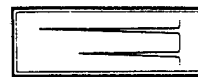


TRACER RESEARCH CORPORATION - ANALYTICAL RESULTS
Earth Technology/ Air National Guard/ Peoria, Illinois/ 2-92-866-S
11/08/92

SAMPLE	BENZENE µg/L	TOLUENE µg/L	ETHYL		TVHC µg/L	TOTAL DCE µg/L	TCA µg/L	TCE µg/L	PCE µg/L
			BENZENE µg/L	XYLENE µg/L					
AIR	<0.04	<0.09	<0.2	<0.2	<0.2	<0.02	0.001	<0.0007	<0.0007
SG-61-1.5'	<0.04	<0.09	<0.2	<0.2	<1	<0.02	0.001	<0.0007	<0.0007
SG-62-2'	<0.04	<0.09	<0.2	<0.2	<1	<0.02	0.001	<0.0007	<0.0007
SG-63-1.5'	<0.08	<0.2	<0.4	<0.5	<2	<0.02	0.001	0.6	<0.001
SG-64-1'	<0.04	<0.09	<0.2	<0.2	<1	0.3	0.0008	0.01	0.004
AIR	<0.08	<0.2	<0.4	<0.5	<0.5	<0.02	0.001	<0.0007	<0.0007

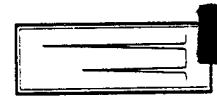
TRACER RESEARCH CORPORATION - ANALYTICAL RESULTS
Earth Technology/ Air National Guard/ Peoria, Illinois/ 2-92-866-S
11/08/92

SAMPLE	ETHYL				TOTAL DCE µg/L	TCA µg/L	TCE µg/L	PCE µg/L
	BENZENE µg/L	TOLUENE µg/L	BENZENE µg/L	XYLENE µg/L				
WS-5-11'	<0.8	<2	<4	<6	0.9	0.005	2	<0.003
WS-6-11'	<0.4	<0.9	<2	<3	3	0.006	0.04	0.008
WS-7-7'	<0.4	<0.9	<2	<3	0.6	0.008	<0.005	<0.003
WS-8-10'	<0.8	<2	<4	<6	<0.1	0.008	<0.005	<0.003
WS-9-7'	<0.8	<2	<4	<6	<0.1	0.008	<0.005	<0.003
WS-10-10'	<0.8	<2	<4	<6	<0.1	0.008	<0.005	0.005
WS-11-10'	<0.8	<2	<4	<6	<0.1	0.01	<0.005	0.007
WS-12-10'	<0.8	<2	<4	<6	<0.1	0.02	0.05	0.02
WS-13-10'	<0.8	<2	<4	<6	8	<0.04	30	<0.02
WS-14-10'	<0.8	<2	<4	<6	<0.1	0.01	0.02	0.005
WS-15-10'	<0.8	<2	<4	<6	<0.1	0.01	<0.005	0.009
WS-16-8'	<0.8	<2	<4	<6	<0.1	0.008	0.02	0.009



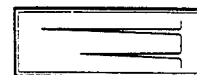
TRACER RESEARCH CORPORATION - ANALYTICAL RESULTS
Earth Technology/ Air National Guard/ Peoria, Illinois/ 2-92-866-S
11/09/92

SAMPLE	BENZENE		TOLUENE		ETHYL BENZENE		XYLENE		TVHC		TOTAL DCE		TCA		TCE		PCE	
	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
AIR	<0.04		<0.1		<0.2		<0.3		<0.3		<0.01		0.0008		<0.0003		<0.0004	
SG-65-10'	<0.04		<0.1		<0.2		<0.3		<0.3		<0.02		0.0007		0.02		<0.0007	
SG-66-2'	<0.04		<0.1		<0.2		<0.3		<0.3		<0.01		<0.0001		<0.0003		<0.0004	
SG-67-1.5'	<0.04		<0.1		<0.2		<0.3		<0.3		<0.02		0.001		<0.0006		<0.0007	
AIR	<0.04		<0.1		<0.2		<0.3		<0.3		<0.01		0.0009		<0.0003		<0.0004	



TRACER RESEARCH CORPORATION - ANALYTICAL RESULTS
 Earth Technology/ Air National Guard/ Peoria, Illinois/ 2-92-866-S
 11/09/92

SAMPLE	BENZENE		TOLUENE		ETHYL BENZENE		XYLENE		TVHC		TOTAL DCE		TCA		TCE		PCE	
	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
WS-17-9'	<0.5		<1		<2		<5		12		<0.2		0.01		<0.007		<0.005	
WS-18-8'	<0.5		<1		<2		<5		<6		<0.2		0.01		<0.007		<0.005	





APPENDIX C Figures

Tracer Research Corporation

Building No. 2

WS-9.

SG-39. SG-44. SG-43 SG-42 SG-38 SG-41

SG-64 SG-69 SG-60 SG-61 SG-62
SG-63

SG-49. SG-48. SG-47 SG-46 SG-45

SG-57. SG-58 SG-55 SG-54 SG-53
SG-40

Building No. 3

SG-52 SG-51 SG-50
(UST?)

SG-31

SG-58 WS-8

Fence

Apron

E-33

Airport Road

2-02-000-S

182nd T. A. S. G.
ILLINOIS A. N. G.

SITE 1

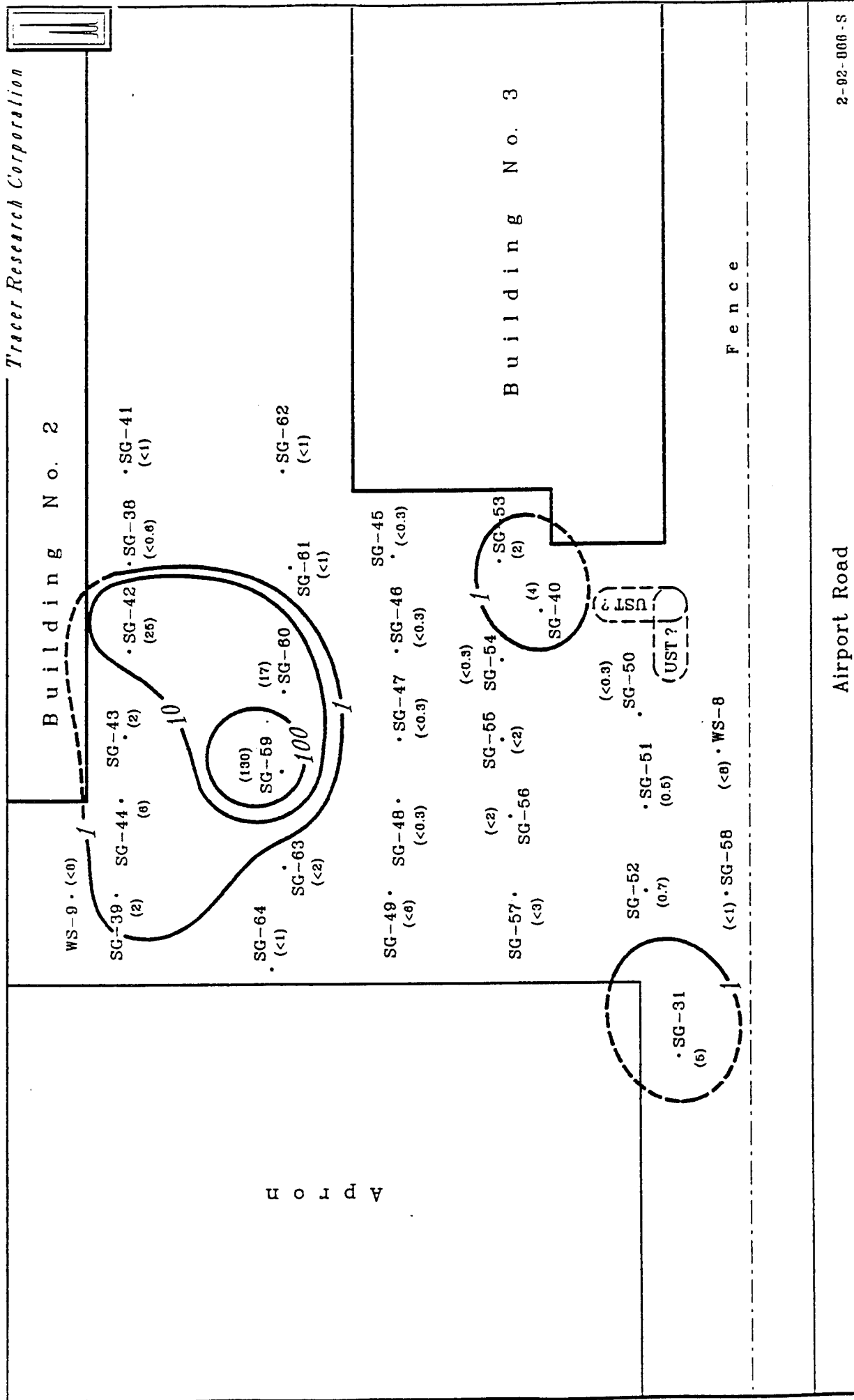
PEORIA, ILLINOIS

SAMPLING LOCATIONS

EXPLANATION

SG-31 Soil Gas Sampling Location





EXPLANATION

- SG-31 Soil Gas Sampling Location
- WS-8 Groundwater Sampling Location

Sample Value (µg/l)

Airport Road

2-92-000-S

182nd T. A. S. G.
ILLINOIS A. N. G.

SITE 1
PEORIA, ILLINOIS

T V H C

Building No. 2

WS-9.
(<0.1)

SG-39.
(<0.01)

SG-43.
(0.4)

SG-42.
(<0.02)

SG-38.
(<0.01)

SG-41.
(<0.02)

SG-64.
(0.3)

SG-59.
(2)

SG-60.
(0.4)

SG-61.
(<0.02)

SG-62.
(<0.02)

SG-49.
(<0.02)

SG-48.
(<0.02)

SG-47.
(<0.02)

SG-46.
(<0.02)

SG-45.
(<0.02)

SG-57.
(0.04)

SG-56.
(<0.02)

SG-55.
(<0.02)

SG-54.
(<0.02)

SG-53.
(<0.02)

SG-52.
(0.08)

SG-51.
(<0.02)

SG-50.
(<0.02)

SG-40.
(<0.01)

SG-31.
(0.05)

SG-58.
(0.1)

WS-8.
(<0.1)

UST?

Fence

Building No. 3

Airport Road

2-92-868-S

EXPLANATION

SG-31 Soil Gas Sampling Location

WS-8 Groundwater Sampling Location

(0.05) Sample Value ($\mu\text{g/l}$)

182nd T. A. S. G.
ILLINOIS A. N. G.

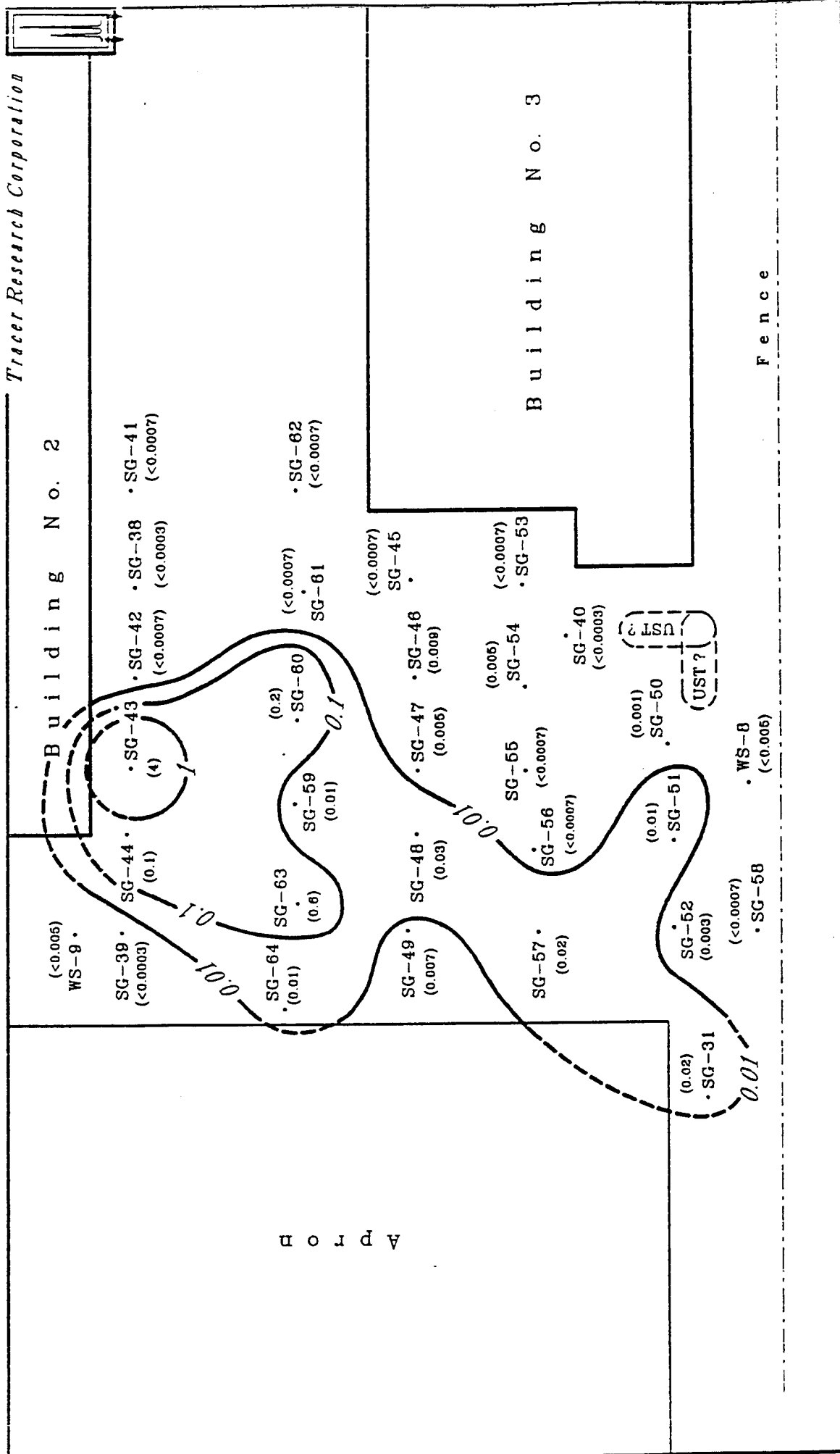
SITE 1

PEORIA, ILLINOIS

total - DICHLOROETHENE (DCE)

N





Airport Road

EXPLANATION

- SG-31 Soil Gas Sampling Location
- WS-8 Groundwater Sampling Location

(0.02) Sample Value (µg/l)



0 15 30

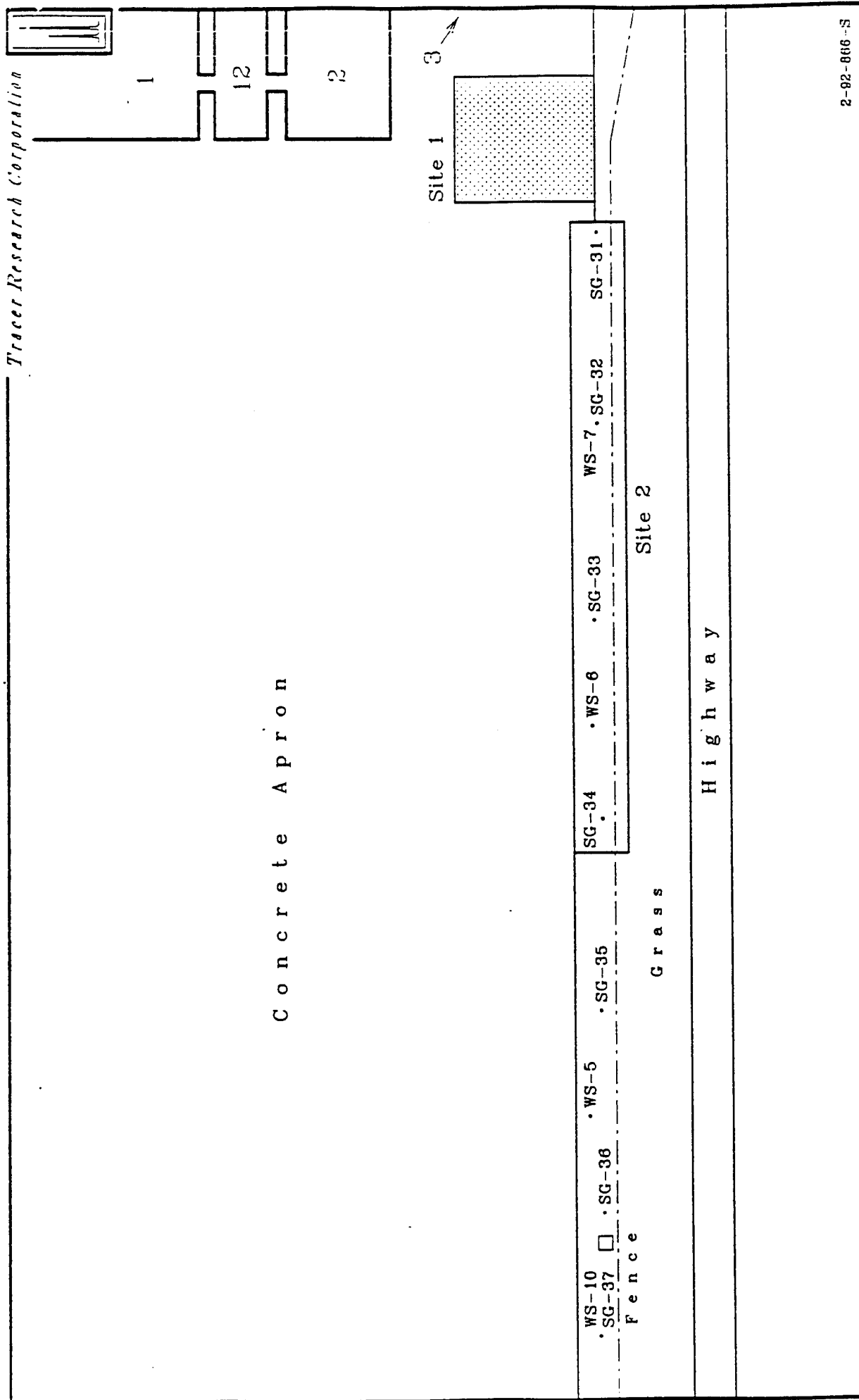
182nd T. A. S. G.
ILLINOIS A. N. G.

SITE 1

PEORIA, ILLINOIS

TRICHLOROETHENE (TCE)

2-92-866-S



182nd T. A. S. G.
ILLINOIS A. N. G.

SITE 2

PEORIA, ILLINOIS

SAMPLING LOCATIONS



EXPLANATION

• SG-32 Soil Gas Sampling Location

The diagram shows a three-phase power system. On the left, a transformer is represented by a rectangle with a circle inside, labeled '3' and '110 kV'. To its right is a busbar labeled '1'. From this busbar, three feeders branch out to three separate busbars labeled '12', '13', and '14'. Each of these busbars is connected to a corresponding load labeled '2', '3', and '4' respectively. The loads are represented by rectangles with a circle inside. The entire system is labeled '3' and '110 kV' at the top left.

Site 1

3

Site 2

Site 2

Fence

Grass

Higway

2-92-888-S

EXPLANATION

• SG-32 Soil Gas Sampling Location

• WS--5 Groundwater Sampling Location

(2) Sample Value ($\mu\text{g/l}$)

182nd T. A. S. G.

ILLINOIS A. N. G.

SITF 2

PEORIA, ILLINOIS

184

3 -

VER



Tracer Research Corporation appreciates the opportunity of being of service to your organization. Because we are constantly striving to improve our service to you, we welcome any comments or suggestions you may have about how we can be more responsive to the needs of your organization. If you have any questions about the field work, analytical results, or this report, please give Wes Pierce a call at (602) 888-9400.

Appendix F: On-site Field GC Soil Analytical Results

FINAL REPORT OF FIELD ANALYSIS

1/21/93

The Earth Technology Corporation
673 Emily Valley Road
Oak Ridge, Tennessee 37830
Attn : Ms. Jean McKee

RE: On-Site Analysis at the Illinois Air National Guard Base
Peoria, Illinois
PACE Project Number: 921208.600

Date Received:	12/8/92	12/8/92	12/8/92	12/8/92
Date Analyzed :	12/8/92	12/8/92	12/8/92	12/8/92
Time Analyzed :	15:02	15:34	16:06	16:38
Analyzed By :	JRA	JRA	JRA	JRA
Sample Number:	10 700101	10 700102	10 700103	10 700104
Run Number :	ANET1208,7	ANET1208,8	ANET1208,9	ANET1208,10
Sample Name :	GPA-S2-SB1- SS0-2	GPA-S2-SB1- SS5-7	GPA-S2-SB2- SS0-2	GPA-S2-SB2- SS4-6

FIELD ANALYSIS

Volatile Organics in Soil-Headspace Screening

	<u>CAS Number</u>	<u>MDL</u>	<u>Units</u>				
1,1-Dichloroethylene	75-35-4	0.12	mg/Kg	ND	ND	ND	ND
Methylene Chloride	75-09-2	0.12	mg/Kg	ND	ND	ND	ND
Trans-1,2-Dichloroethylene	156-60-5	0.12	mg/Kg	ND	ND	ND	ND
1,1-Dichloroethane	75-34-3	0.12	mg/Kg	ND	ND	ND	ND
Cis-1,2-Dichloroethylene	156-59-4	0.12	mg/Kg	ND	ND	ND	ND
Chloroform	67-66-3	0.12	mg/Kg	ND	ND	ND	ND
1,1,1-Trichloroethane	71-55-6	0.12	mg/Kg	ND	ND	ND	ND
Carbon Tetrachloride	56-23-5	0.12	mg/Kg	ND	ND	ND	ND
1,2-Dichloroethane	107-06-2	0.12	mg/Kg	ND	ND	ND	ND
Benzene	71-43-2	0.12	mg/Kg	ND	ND	ND	ND
1,1,2-Trichloroethylene (TCE)	79-01-6	0.12	mg/Kg	ND	ND	ND	ND
1,2-Dichloropropane	78-87-5	0.12	mg/Kg	ND	ND	ND	ND
Bromodichloromethane	75-27-4	0.12	mg/Kg	ND	ND	ND	ND
Toluene	108-88-3	0.12	mg/Kg	ND	ND	ND	ND
1,1,2-Trichloroethane	79-00-5	0.12	mg/Kg	ND	ND	ND	ND
1,1,2,2-Tetrachloroethene	79-34-5	0.12	mg/Kg	ND	ND	ND	ND
Chlorodibromomethane	124-48-1	0.12	mg/Kg	ND	ND	ND	ND
Ethyl Benzene	100-41-4	0.12	mg/Kg	ND	ND	ND	ND
M & P-Xylene	-	0.24	mg/Kg	ND	ND	ND	ND
O-Xylene	95-47-6	0.24	mg/Kg	ND	ND	ND	ND

** -Time estimated

MDL - Method Detection Limit

ND - Not Detected

FINAL REPORT OF FIELD ANALYSIS

1/21/93

The Earth Technology Corporation
673 Emily Valley Road
Oak Ridge, Tennessee 37830
Attn : Ms. Jean McKee

RE: On-Site Analysis at the Illinois Air National Guard Base
Peoria, Illinois
PACE Project Number: 921208.600

Date Recieved:	12/8/92	12/8/92	12/8/92	12/8/92
Date Analyzed :	12/8/92	12/9/92	12/9/92	12/8/92
Time Analyzed :	17:10	11:29	12:01	18:47
Analyzed By :	JRA	JRA	JRA	JRA
Sample Number:	10 700105	10 700106	10 700107	10 700108
Run Number :	ANET1208,11	ANET1208,39	ANET1208,40	ANET1208,14
Sample Name :	GPA-S2-SB2- SS8-10	GPA-S2-SB2- SS12-14	GPA-S2-SB3- SS-6662	GPA-S2-SB3- SS-0507

FIELD ANALYSIS

Volatile Organics in Soil-Headspace Screening

	<u>CAS Number</u>	<u>MDL</u>	<u>Units</u>				
1,1-Dichloroethylene	75-35-4	0.12	mg/Kg	ND	ND	ND	ND
Methylene Chloride	75-09-2	0.12	mg/Kg	ND	ND	ND	ND
Trans-1,2-Dichloroethylene	156-60-5	0.12	mg/Kg	ND	ND	ND	ND
1,1-Dichloroethane	75-34-3	0.12	mg/Kg	ND	ND	ND	ND
Cis-1,2-Dichloroethylene	156-59-4	0.12	mg/Kg	ND	ND	ND	ND
Chloroform	67-66-3	0.12	mg/Kg	ND	ND	ND	ND
1,1,1-Trichloroethane	71-55-6	0.12	mg/Kg	ND	ND	ND	ND
Carbon Tetrachloride	56-23-5	0.12	mg/Kg	ND	ND	ND	ND
1,2-Dichloroethane	107-06-2	0.12	mg/Kg	ND	ND	ND	ND
Benzene	71-43-2	0.12	mg/Kg	ND	ND	ND	ND
1,1,2-Trichloroethylene (TCE)	79-01-6	0.12	mg/Kg	ND	ND	ND	ND
1,2-Dichloropropane	78-87-5	0.12	mg/Kg	ND	ND	ND	ND
Bromodichloromethane	75-27-4	0.12	mg/Kg	ND	ND	ND	ND
Toluene	108-88-3	0.12	mg/Kg	ND	ND	ND	ND
1,1,2-Trichloroethane	79-00-5	0.12	mg/Kg	ND	ND	ND	ND
1,1,2,2-Tetrachloroethene	79-34-5	0.12	mg/Kg	ND	ND	ND	ND
Chlorodibromomethane	124-48-1	0.12	mg/Kg	ND	ND	ND	ND
Ethyl Benzene	100-41-4	0.12	mg/Kg	ND	ND	ND	ND
M & P-Xylene	-	0.24	mg/Kg	ND	ND	ND	ND
O-Xylene	95-47-6	0.24	mg/Kg	ND	ND	ND	ND

** -Time estimated

MDL - Method Detection Limit

ND - Not Detected

FINAL REPORT OF FIELD ANALYSIS

1/21/93

The Earth Technology Corporation
673 Emily Valley Road
Oak Ridge, Tennessee 37830
Attn : Ms. Jean McKee

RE: On-Site Analysis at the Illinois Air National Guard Base
Peoria, Illinois

PACE Project Number: 921208.600

Date Recieved:	12/8/92	12/8/92	12/8/92	12/8/92
Date Analyzed :	12/8/92	12/8/92	12/9/92	12/9/92
Time Analyzed :	19:19	19:51	12:33	13:05
Analyzed By :	JRA	JRA	JRA	JRA
Sample Number:	10 700109	10 700110	10 700111	10 700112
Run Number :	ANET1208,15	ANET1208,16	ANET1208,41	ANET1208,42
Sample Name :	GPA-3B-SB1- SS0-2	GPA-S3B-SB1- SS5-7	GPA-S3B-SB2- SS0-2	GPA-S3B-SB2- SS5-7

FIELD ANALYSIS

Volatile Organics in Soil-Headspace Screening

	<u>CAS Number</u>	<u>MDL</u>	<u>Units</u>				
1,1-Dichloroethylene	75-35-4	0.12	mg/Kg	ND	ND	ND	ND
Methylene Chloride	75-09-2	0.12	mg/Kg	ND	ND	ND	ND
Trans-1,2-Dichloroethylene	156-60-5	0.12	mg/Kg	ND	ND	ND	ND
1,1-Dichloroethane	75-34-3	0.12	mg/Kg	ND	ND	ND	ND
Cis-1,2-Dichloroethylene	156-59-4	0.12	mg/Kg	ND	ND	ND	ND
Chloroform	67-66-3	0.12	mg/Kg	ND	ND	ND	ND
1,1,1-Trichloroethane	71-55-6	0.12	mg/Kg	ND	ND	ND	ND
Carbon Tetrachloride	56-23-5	0.12	mg/Kg	ND	ND	ND	ND
1,2-Dichloroethane	107-06-2	0.12	mg/Kg	ND	ND	ND	ND
Benzene	71-43-2	0.12	mg/Kg	ND	ND	ND	ND
1,1,2-Trichloroethylene (TCE)	79-01-6	0.12	mg/Kg	ND	ND	ND	ND
1,2-Dichloropropane	78-87-5	0.12	mg/Kg	ND	ND	ND	ND
Bromodichloromethane	75-27-4	0.12	mg/Kg	ND	ND	ND	ND
Toluene	108-88-3	0.12	mg/Kg	ND	ND	ND	ND
1,1,2-Trichloroethane	79-00-5	0.12	mg/Kg	ND	ND	ND	ND
1,1,2,2-Tetrachloroethene	79-34-5	0.12	mg/Kg	ND	ND	ND	ND
Chlorodibromomethane	124-48-1	0.12	mg/Kg	ND	ND	ND	ND
Ethyl Benzene	100-41-4	0.12	mg/Kg	ND	ND	ND	ND
M & P-Xylene	-	0.24	mg/Kg	ND	ND	ND	ND
O-Xylene	95-47-6	0.24	mg/Kg	ND	ND	ND	ND

** -Time estimated

MDL - Method Detection Limit

ND - Not Detected

FINAL REPORT OF FIELD ANALYSIS

1/21/93

The Earth Technology Corporation
673 Emily Valley Road
Oak Ridge, Tennessee 37830
Attn : Ms. Jean McKee

RE: On-Site Analysis at the Illinois Air National Guard Base
Peoria, Illinois

PACE Project Number: 921208.600

Date Recieved:	12/8/92	12/9/92	12/9/92	12/10/92
Date Analyzed :	12/9/92	12/9/92	12/9/92	12/10/92
Time Analyzed :	13:37	18:26	18:58	13:34
Analyzed By :	JRA	JRA	JRA	JRA
Sample Number:	10 700113	10 700114	10 700115	10 700116
Run Number :	ANET1208,43	ANET1209,7	ANET1209,8	ANET1209,12
Sample Name :	GPA-S3B-SB2- SS10-12	GPA-S3A-SB1- SS5-7	GPA-S3A-SB1- SS0-2	GPA-S3B-SB3- SS0-2

FIELD ANALYSIS

Volatile Organics in Soil-Headspace Screening

	<u>CAS Number</u>	<u>MDL</u>	<u>Units</u>				
1,1-Dichloroethylene	75-35-4	0.12	mg/Kg	ND	ND	ND	ND
Methylene Chloride	75-09-2	0.12	mg/Kg	ND	ND	ND	ND
Trans-1,2-Dichloroethylene	156-60-5	0.12	mg/Kg	ND	ND	ND	ND
1,1-Dichloroethane	75-34-3	0.12	mg/Kg	ND	ND	ND	ND
Cis-1,2-Dichloroethylene	156-59-4	0.12	mg/Kg	ND	ND	ND	ND
Chloroform	67-66-3	0.12	mg/Kg	ND	ND	ND	ND
1,1,1-Trichloroethane	71-55-6	0.12	mg/Kg	ND	ND	ND	ND
Carbon Tetrachloride	56-23-5	0.12	mg/Kg	ND	ND	ND	ND
1,2-Dichloroethane	107-06-2	0.12	mg/Kg	ND	ND	ND	ND
Benzene	71-43-2	0.12	mg/Kg	ND	ND	ND	ND
1,1,2-Trichloroethylene (TCE)	79-01-6	0.12	mg/Kg	ND	ND	ND	ND
1,2-Dichloropropane	78-87-5	0.12	mg/Kg	ND	ND	ND	ND
Bromodichloromethane	75-27-4	0.12	mg/Kg	ND	ND	ND	ND
Toluene	108-88-3	0.12	mg/Kg	ND	ND	ND	ND
1,1,2-Trichloroethane	79-00-5	0.12	mg/Kg	ND	ND	ND	ND
1,1,2,2-Tetrachloroethene	79-34-5	0.12	mg/Kg	ND	ND	ND	ND
Chlorodibromomethane	124-48-1	0.12	mg/Kg	ND	ND	ND	ND
Ethyl Benzene	100-41-4	0.12	mg/Kg	ND	ND	ND	ND
M & P-Xylene	-	0.24	mg/Kg	ND	ND	ND	ND
O-Xylene	95-47-6	0.24	mg/Kg	ND	ND	ND	ND

** -Time estimated

MDL - Method Detection Limit

ND - Not Detected

FINAL REPORT OF FIELD ANALYSIS

1/21/93

The Earth Technology Corporation
673 Emily Valley Road
Oak Ridge, Tennessee 37830
Attn : Ms. Jean McKee

RE: On-Site Analysis at the Illinois Air National Guard Base
Peoria, Illinois
PACE Project Number: 921208.600

Date Recieved:	12/10/92	12/10/92	12/10/92	12/10/92
Date Analyzed :	12/10/92	12/10/92	12/10/92	12/10/92
Time Analyzed :	14:06	15:32	16:06	16:38
Analyzed By :	JRA	JRA	JRA	JRA
Sample Number:	10 700117	10 700118	10 700119	10 700120
Run Number :	ANET1209,13	ANET1209,14	ANET1210,1	ANET1210,2
Sample Name :	GPA-S3B-SB3- SS4-6	GPA-S1-SB2- SS4-6	GPA-S1-SB2- SS6-8	GPA-S3B-SB3- SS0-2

FIELD ANALYSIS

Volatile Organics in Soil-Headspace Screening

	<u>CAS Number</u>	<u>MDL</u>	<u>Units</u>				
1,1-Dichloroethylene	75-35-4	0.12	mg/Kg	ND	ND	ND	ND
Methylene Chloride	75-09-2	0.12	mg/Kg	ND	ND	ND	ND
Trans-1,2-Dichloroethylene	156-60-5	0.12	mg/Kg	ND	ND	ND	ND
1,1-Dichloroethane	75-34-3	0.12	mg/Kg	ND	ND	ND	ND
Cis-1,2-Dichloroethylene	156-59-4	0.12	mg/Kg	ND	ND	ND	ND
Chloroform	67-66-3	0.12	mg/Kg	ND	ND	ND	ND
1,1,1-Trichloroethane	71-55-6	0.12	mg/Kg	ND	ND	ND	ND
Carbon Tetrachloride	56-23-5	0.12	mg/Kg	ND	ND	ND	ND
1,2-Dichloroethane	107-06-2	0.12	mg/Kg	ND	ND	ND	ND
Benzene	71-43-2	0.12	mg/Kg	ND	ND	ND	ND
1,1,2-Trichloroethylene (TCE)	79-01-6	0.12	mg/Kg	ND	ND	ND	ND
1,2-Dichloropropane	78-87-5	0.12	mg/Kg	ND	ND	ND	ND
Bromodichloromethane	75-27-4	0.12	mg/Kg	ND	ND	ND	ND
Toluene	108-88-3	0.12	mg/Kg	ND	ND	ND	ND
1,1,2-Trichloroethane	79-00-5	0.12	mg/Kg	ND	ND	ND	ND
1,1,2,2-Tetrachloroethene	79-34-5	0.12	mg/Kg	ND	ND	ND	ND
Chlorodibromomethane	124-48-1	0.12	mg/Kg	ND	ND	ND	ND
Ethyl Benzene	100-41-4	0.12	mg/Kg	ND	ND	ND	ND
M & P-Xylene	-	0.24	mg/Kg	ND	ND	ND	ND
O-Xylene	95-47-6	0.24	mg/Kg	ND	ND	ND	ND

** -Time estimated

MDL - Method Detection Limit

ND - Not Detected

FINAL REPORT OF FIELD ANALYSIS

1/21/93

The Earth Technology Corporation
673 Emily Valley Road
Oak Ridge, Tennessee 37830
Attn : Ms. Jean McKee

RE: On-Site Analysis at the Illinois Air National Guard Base
Peoria, Illinois

PACE Project Number: 921208.600

Date Recieved:	12/10/92	12/10/92	12/10/92	12/10/92
Date Analyzed :	12/10/92	12/10/92	12/10/92	12/10/92
Time Analyzed :	17:10	17:42	19:18	19:50
Analyzed By :	JRA	JRA	JRA	JRA
Sample Number:	10 700121	10 700122	10 700123	10 700124
Run Number :	ANET1210,3	ANET1210,4	ANET1210,7	ANET1210,8
Sample Name :	GPA-S3B-SB3- SS4-6	GPA-S3B-SB3- SS8-10	GPA-S1-SB1- SS2-4	GPA-S1-SB1- SS4-6

FIELD ANALYSIS

Volatile Organics in Soil-Headspace Screening

	<u>CAS Number</u>	<u>MDL</u>	<u>Units</u>				
1,1-Dichloroethylene	75-35-4	0.12	mg/Kg	ND	ND	ND	ND
Methylene Chloride	75-09-2	0.12	mg/Kg	ND	ND	ND	ND
Trans-1,2-Dichloroethylene	156-60-5	0.12	mg/Kg	ND	ND	ND	ND
1,1-Dichloroethane	75-34-3	0.12	mg/Kg	ND	ND	ND	ND
Cis-1,2-Dichloroethylene	156-59-4	0.12	mg/Kg	ND	ND	ND	ND
Chloroform	67-66-3	0.12	mg/Kg	ND	ND	ND	ND
1,1,1-Trichloroethane	71-55-6	0.12	mg/Kg	ND	ND	ND	ND
Carbon Tetrachloride	56-23-5	0.12	mg/Kg	ND	ND	ND	ND
1,2-Dichloroethane	107-06-2	0.12	mg/Kg	ND	ND	ND	ND
Benzene	71-43-2	0.12	mg/Kg	ND	ND	ND	ND
1,1,2-Trichloroethylene (TCE)	79-01-6	0.12	mg/Kg	ND	ND	ND	ND
1,2-Dichloropropane	78-87-5	0.12	mg/Kg	ND	ND	ND	ND
Bromodichloromethane	75-27-4	0.12	mg/Kg	ND	ND	ND	ND
Toluene	108-88-3	0.12	mg/Kg	ND	ND	ND	ND
1,1,2-Trichloroethane	79-00-5	0.12	mg/Kg	ND	ND	ND	ND
1,1,2,2-Tetrachloroethene	79-34-5	0.12	mg/Kg	ND	ND	ND	ND
Chlorodibromomethane	124-48-1	0.12	mg/Kg	ND	ND	ND	ND
Ethyl Benzene	100-41-4	0.12	mg/Kg	ND	ND	ND	ND
M & P-Xylene	-	0.24	mg/Kg	ND	ND	ND	ND
O-Xylene	95-47-6	0.24	mg/Kg	ND	ND	ND	ND

** -Time estimated

MDL - Method Detection Limit

ND - Not Detected

FINAL REPORT OF FIELD ANALYSIS

1/21/93

The Earth Technology Corporation
673 Emily Valley Road
Oak Ridge, Tennessee 37830
Attn : Ms. Jean McKee

RE: On-Site Analysis at the Illinois Air National Guard Base
Peoria, Illinois

PACE Project Number: 921208.600

Date Received:

Date Analyzed :

Time Analyzed :

Analyzed By :

Sample Number:

Run Number :

Sample Name :

12/10/92	12/10/92	12/10/92	12/10/92
12/10/92	12/10/92	12/10/92	12/11/92
20:22	20:54	21:27	17:27
JRA	JRA	JRA	JRA
10 700125	10 700126	10 700127	10 700128
ANET1210,9	ANET1210,10	ANET1210,11	ANET1211,16
GPA-S1-SB1-SS6-8	GPA-S1-SB2-SS0-2	GPA-S1-SB2-SS2-4	GPA-S1-SB3-SS6-8

FIELD ANALYSIS

Volatile Organics in Soil-Headspace Screening

	CAS Number	MDL	Units				
1,1-Dichloroethylene	75-35-4	0.12	mg/Kg	ND	ND	ND	ND
Methylene Chloride	75-09-2	0.12	mg/Kg	ND	ND	ND	ND
Trans-1,2-Dichloroethylene	156-60-5	0.12	mg/Kg	ND	ND	ND	ND
1,1-Dichloroethane	75-34-3	0.12	mg/Kg	ND	ND	ND	ND
Cis-1,2-Dichloroethylene	156-59-4	0.12	mg/Kg	ND	ND	ND	ND
Chloroform	67-66-3	0.12	mg/Kg	ND	ND	ND	ND
1,1,1-Trichloroethane	71-55-6	0.12	mg/Kg	ND	ND	ND	ND
Carbon Tetrachloride	56-23-5	0.12	mg/Kg	ND	ND	ND	ND
1,2-Dichloroethane	107-06-2	0.12	mg/Kg	ND	ND	ND	ND
Benzene	71-43-2	0.12	mg/Kg	ND	ND	ND	ND
1,1,2-Trichloroethylene (TCE)	79-01-6	0.12	mg/Kg	ND	ND	ND	ND
1,2-Dichloropropane	78-87-5	0.12	mg/Kg	ND	ND	ND	ND
Bromodichloromethane	75-27-4	0.12	mg/Kg	ND	ND	ND	ND
Toluene	108-88-3	0.12	mg/Kg	ND	ND	ND	ND
1,1,2-Trichloroethane	79-00-5	0.12	mg/Kg	ND	ND	ND	ND
1,1,2,2-Tetrachloroethene	79-34-5	0.12	mg/Kg	ND	ND	ND	ND
Chlorodibromomethane	124-48-1	0.12	mg/Kg	ND	ND	ND	ND
Ethyl Benzene	100-41-4	0.12	mg/Kg	ND	ND	ND	ND
M & P-Xylene	-	0.24	mg/Kg	ND	ND	ND	ND
O-Xylene	95-47-6	0.24	mg/Kg	ND	ND	ND	ND

** -Time estimated

MDL - Method Detection Limit

ND - Not Detected

FINAL REPORT OF FIELD ANALYSIS

1/21/93

The Earth Technology Corporation
673 Emily Valley Road
Oak Ridge, Tennessee 37830
Attn : Ms. Jean McKee

RE: On-Site Analysis at the Illinois Air National Guard Base
Peoria, Illinois

PACE Project Number: 921208.600

Date Received:	12/10/92	12/10/92	12/10/92	12/10/92
Date Analyzed :	12/11/92	12/11/92	12/11/92	12/11/92
Time Analyzed :	17:59	18:32	19:04	14:33
Analyzed By :	JRA	JRA	JRA	JRA
Sample Number:	10 700129	10 700130	10 700131	10 700132
Run Number :	ANET1211,17	ANET1211,18	ANET1211,19	ANET1211,11
Sample Name :	GPA-S1-SB3- SS8-10	GPA-S1-SB3- SS2-4	GPA-S1-SB3- SS4-6	GPA-S1-SB3- SS10-12

FIELD ANALYSIS

Volatile Organics in Soil-Headspace Screening

	<u>CAS Number</u>	<u>MDL</u>	<u>Units</u>				
1,1-Dichloroethylene	75-35-4	0.12	mg/Kg	ND	ND	ND	ND
Methylene Chloride	75-09-2	0.12	mg/Kg	ND	ND	ND	ND
Trans-1,2-Dichloroethylene	156-60-5	0.12	mg/Kg	ND	ND	ND	ND
1,1-Dichloroethane	75-34-3	0.12	mg/Kg	ND	ND	ND	ND
Cis-1,2-Dichloroethylene	156-59-4	0.12	mg/Kg	ND	ND	ND	ND
Chloroform	67-66-3	0.12	mg/Kg	ND	ND	ND	ND
1,1,1-Trichloroethane	71-55-6	0.12	mg/Kg	ND	ND	ND	ND
Carbon Tetrachloride	56-23-5	0.12	mg/Kg	ND	ND	ND	ND
1,2-Dichloroethane	107-06-2	0.12	mg/Kg	ND	ND	ND	ND
Benzene	71-43-2	0.12	mg/Kg	ND	ND	ND	ND
1,1,2-Trichloroethylene (TCE)	79-01-6	0.12	mg/Kg	ND	ND	ND	ND
1,2-Dichloropropane	78-87-5	0.12	mg/Kg	ND	ND	ND	ND
Bromodichloromethane	75-27-4	0.12	mg/Kg	ND	ND	ND	ND
Toluene	108-88-3	0.12	mg/Kg	ND	ND	ND	ND
1,1,2-Trichloroethane	79-00-5	0.12	mg/Kg	ND	ND	ND	ND
1,1,2,2-Tetrachloroethene	79-34-5	0.12	mg/Kg	ND	ND	ND	ND
Chlorodibromomethane	124-48-1	0.12	mg/Kg	ND	ND	ND	ND
Ethyl Benzene	100-41-4	0.12	mg/Kg	ND	ND	ND	ND
M & P-Xylene	-	0.24	mg/Kg	ND	ND	ND	ND
O-Xylene	95-47-6	0.24	mg/Kg	ND	ND	ND	ND

** -Time estimated

MDL - Method Detection Limit

ND - Not Detected

FINAL REPORT OF FIELD ANALYSIS

1/21/93

The Earth Technology Corporation
673 Emily Valley Road
Oak Ridge, Tennessee 37830
Attn : Ms. Jean McKee

RE: On-Site Analysis at the Illinois Air National Guard Base
Peoria, Illinois

PACE Project Number: 921208.600

Date Recieved:	12/12/92	12/12/92	12/12/92	12/12/92
Date Analyzed :	12/12/92	12/12/92	12/12/92	12/12/92
Time Analyzed :	11:35	12:08	12:40	13:12
Analyzed By :	JRA	JRA	JRA	JRA
Sample Number:	10 700133	10 700134	10 700135	10 700136
Run Number :	ANET1212,7	ANET1212,8	ANET1212,9	ANET1212,10
Sample Name :	GPA-S1-SB1- SS0-2	GPA-S1-SB4- SS2-4	GPA-S1-SB4- SS4-6	GPA-S1-SB4- SS6-8

FIELD ANALYSIS

Volatile Organics in Soil-Headspace Screening

	<u>CAS Number</u>	<u>MDL</u>	<u>Units</u>				
1,1-Dichloroethylene	75-35-4	0.12	mg/Kg	ND	ND	ND	ND
Methylene Chloride	75-09-2	0.12	mg/Kg	ND	ND	ND	ND
Trans-1,2-Dichloroethylene	156-60-5	0.12	mg/Kg	ND	ND	ND	ND
1,1-Dichloroethane	75-34-3	0.12	mg/Kg	ND	ND	ND	ND
Cis-1,2-Dichloroethylene	156-59-4	0.12	mg/Kg	ND	ND	ND	ND
Chloroform	67-66-3	0.12	mg/Kg	ND	ND	ND	ND
1,1,1-Trichloroethane	71-55-6	0.12	mg/Kg	ND	ND	ND	ND
Carbon Tetrachloride	56-23-5	0.12	mg/Kg	ND	ND	ND	ND
1,2-Dichloroethane	107-06-2	0.12	mg/Kg	ND	ND	ND	ND
Benzene	71-43-2	0.12	mg/Kg	ND	ND	ND	ND
1,1,2-Trichloroethylene (TCE)	79-01-6	0.12	mg/Kg	ND	ND	ND	ND
1,2-Dichloropropane	78-87-5	0.12	mg/Kg	ND	ND	ND	ND
Bromodichloromethane	75-27-4	0.12	mg/Kg	ND	ND	ND	ND
Toluene	108-88-3	0.12	mg/Kg	ND	ND	ND	ND
1,1,2-Trichloroethane	79-00-5	0.12	mg/Kg	ND	ND	ND	ND
1,1,2,2-Tetrachloroethene	79-34-5	0.12	mg/Kg	ND	ND	ND	ND
Chlorodibromomethane	124-48-1	0.12	mg/Kg	ND	ND	ND	ND
Ethyl Benzene	100-41-4	0.12	mg/Kg	ND	ND	ND	ND
M & P-Xylene	-	0.24	mg/Kg	ND	ND	ND	ND
O-Xylene	95-47-6	0.24	mg/Kg	ND	ND	ND	ND

** -Time estimated

MDL - Method Detection Limit

ND - Not Detected

FINAL REPORT OF FIELD ANALYSIS

1/21/93

The Earth Technology Corporation
673 Emily Valley Road
Oak Ridge, Tennessee 37830
Attn : Ms. Jean McKee

RE: On-Site Analysis at the Illinois Air National Guard Base
Peoria, Illinois

PACE Project Number: 921208.600

Date Received:	12/12/92	12/12/92	12/12/92	12/12/92
Date Analyzed :	12/12/92	12/12/92	12/12/92	12/12/92
Time Analyzed :	16:36	17:08	17:40	19:16
Analyzed By :	JRA	JRA	JRA	JRA
Sample Number:	10 700137	10 700138	10 700139	10 700140
Run Number :	ANET1212,16	ANET1212,17	ANET1212,18	ANET1212,21
Sample Name :	GPA-S1-SB5- SS0-2	GPA-S1-SB5- SS2-4	GPA-S1-SB5- SS4-6	GPA-S1-SB5- SS6-8

FIELD ANALYSIS

Volatile Organics in Soil-Headspace Screening

	<u>CAS Number</u>	<u>MDL</u>	<u>Units</u>				
1,1-Dichloroethylene	75-35-4	0.12	mg/Kg	ND	ND	ND	ND
Methylene Chloride	75-09-2	0.12	mg/Kg	ND	ND	ND	ND
Trans-1,2-Dichloroethylene	156-60-5	0.12	mg/Kg	ND	ND	ND	ND
1,1-Dichloroethane	75-34-3	0.12	mg/Kg	ND	ND	ND	ND
Cis-1,2-Dichloroethylene	156-59-4	0.12	mg/Kg	ND	ND	ND	ND
Chloroform	67-66-3	0.12	mg/Kg	ND	ND	ND	ND
1,1,1-Trichloroethane	71-55-6	0.12	mg/Kg	ND	ND	ND	ND
Carbon Tetrachloride	56-23-5	0.12	mg/Kg	ND	ND	ND	ND
1,2-Dichloroethane	107-06-2	0.12	mg/Kg	ND	ND	ND	ND
Benzene	71-43-2	0.12	mg/Kg	ND	ND	ND	ND
1,1,2-Trichloroethylene (TCE)	79-01-6	0.12	mg/Kg	ND	ND	ND	ND
1,2-Dichloropropane	78-87-5	0.12	mg/Kg	ND	ND	ND	ND
Bromodichloromethane	75-27-4	0.12	mg/Kg	ND	ND	ND	ND
Toluene	108-88-3	0.12	mg/Kg	ND	ND	ND	ND
1,1,2-Trichloroethane	79-00-5	0.12	mg/Kg	ND	ND	ND	ND
1,1,2,2-Tetrachloroethene	79-34-5	0.12	mg/Kg	ND	ND	ND	ND
Chlorodibromomethane	124-48-1	0.12	mg/Kg	ND	ND	ND	ND
Ethyl Benzene	100-41-4	0.12	mg/Kg	ND	ND	ND	ND
M & P-Xylene	-	0.24	mg/Kg	ND	ND	ND	ND
O-Xylene	95-47-6	0.24	mg/Kg	ND	ND	ND	ND

** -Time estimated

MDL - Method Detection Limit

ND - Not Detected

FINAL REPORT OF FIELD ANALYSIS

1/21/93

The Earth Technology Corporation
673 Emily Valley Road
Oak Ridge, Tennessee 37830
Attn : Ms. Jean McKee

RE: On-Site Analysis at the Illinois Air National Guard Base
Peoria, Illinois

PACE Project Number: 921208.600

Date Recieved:	12/12/92	12/13/92	12/13/92	12/13/92
Date Analyzed :	12/12/92	12/13/92	12/13/92	12/13/92
Time Analyzed :	19:48	11:00	11:32	12:04
Analyzed By :	JRA	JRA	JRA	JRA
Sample Number:	10 700141	10 700142	10 700143	10 700144
Run Number :	ANET1212,22	ANET1213,3	ANET1213,4	ANET1213,5
Sample Name :	GPA-S1-SB5- SS8-10	GPA-S1-MW1- SS0-2	GPA-S1-MW1- SS2-4	GPA-S1-MW1- SS4-6

FIELD ANALYSIS

Volatile Organics in Soil-Headspace Screening

	<u>CAS Number</u>	<u>MDL</u>	<u>Units</u>				
1,1-Dichloroethylene	75-35-4	0.12	mg/Kg	ND	ND	ND	ND
Methylene Chloride	75-09-2	0.12	mg/Kg	ND	ND	ND	ND
Trans-1,2-Dichloroethylene	156-60-5	0.12	mg/Kg	ND	ND	ND	ND
1,1-Dichloroethane	75-34-3	0.12	mg/Kg	ND	ND	ND	ND
Cis-1,2-Dichloroethylene	156-59-4	0.12	mg/Kg	ND	ND	ND	ND
Chloroform	67-66-3	0.12	mg/Kg	ND	ND	ND	ND
1,1,1-Trichloroethane	71-55-6	0.12	mg/Kg	ND	ND	ND	ND
Carbon Tetrachloride	56-23-5	0.12	mg/Kg	ND	ND	ND	ND
1,2-Dichloroethane	107-06-2	0.12	mg/Kg	ND	ND	ND	ND
Benzene	71-43-2	0.12	mg/Kg	ND	ND	ND	ND
1,1,2-Trichloroethylene (TCE)	79-01-6	0.12	mg/Kg	ND	ND	ND	ND
1,2-Dichloropropane	78-87-5	0.12	mg/Kg	ND	ND	ND	ND
Bromodichloromethane	75-27-4	0.12	mg/Kg	ND	ND	ND	ND
Toluene	108-88-3	0.12	mg/Kg	ND	ND	ND	ND
1,1,2-Trichloroethane	79-00-5	0.12	mg/Kg	ND	ND	ND	ND
1,1,2,2-Tetrachloroethene	79-34-5	0.12	mg/Kg	ND	ND	ND	ND
Chlorodibromomethane	124-48-1	0.12	mg/Kg	ND	ND	ND	ND
Ethyl Benzene	100-41-4	0.12	mg/Kg	ND	ND	ND	ND
M & P-Xylene	-	0.24	mg/Kg	ND	ND	ND	ND
O-Xylene	95-47-6	0.24	mg/Kg	ND	ND	ND	ND

** -Time estimated

MDL - Method Detection Limit

ND - Not Detected

FINAL REPORT OF FIELD ANALYSIS

1/21/93

The Earth Technology Corporation
673 Emily Valley Road
Oak Ridge, Tennessee 37830
Attn : Ms. Jean McKee

RE: On-Site Analysis at the Illinois Air National Guard Base
Peoria, Illinois
PACE Project Number: 921208.600

Date Received:	12/13/92	12/13/92
Date Analyzed :	12/13/92	12/13/92
Time Analyzed :	12:36	13:09
Analyzed By :	JRA	JRA
Sample Number:	10 700145	10 700146
Run Number :	ANET1213,6	ANET1213,7
Sample Name :	GPA-S1-MW1- SS6-8	GPA-S1-MW1- SS8-10

FIELD ANALYSIS

Volatile Organics in Soil-Headspace Screening

	<u>CAS Number</u>	<u>MDL</u>	<u>Units</u>		
1,1-Dichloroethylene	75-35-4	0.12	mg/Kg	ND	ND
Methylene Chloride	75-09-2	0.12	mg/Kg	ND	ND
Trans-1,2-Dichloroethylene	156-60-5	0.12	mg/Kg	ND	ND
1,1-Dichloroethane	75-34-3	0.12	mg/Kg	ND	ND
Cis-1,2-Dichloroethylene	156-59-4	0.12	mg/Kg	ND	ND
Chloroform	67-66-3	0.12	mg/Kg	ND	ND
1,1,1-Trichloroethane	71-55-6	0.12	mg/Kg	ND	ND
Carbon Tetrachloride	56-23-5	0.12	mg/Kg	ND	ND
1,2-Dichloroethane	107-06-2	0.12	mg/Kg	ND	ND
Benzene	71-43-2	0.12	mg/Kg	ND	ND
1,1,2-Trichloroethylene (TCE)	79-01-6	0.12	mg/Kg	ND	ND
1,2-Dichloropropane	78-87-5	0.12	mg/Kg	ND	ND
Bromodichloromethane	75-27-4	0.12	mg/Kg	ND	ND
Toluene	108-88-3	0.12	mg/Kg	ND	ND
1,1,2-Trichloroethane	79-00-5	0.12	mg/Kg	ND	ND
1,1,2,2-Tetrachloroethene	79-34-5	0.12	mg/Kg	ND	ND
Chlorodibromomethane	124-48-1	0.12	mg/Kg	ND	ND
Ethyl Benzene	100-41-4	0.12	mg/Kg	ND	ND
M & P-Xylene	-	0.24	mg/Kg	ND	ND
O-Xylene	95-47-6	0.24	mg/Kg	ND	ND

** -Time estimated

MDL - Method Detection Limit

ND - Not Detected

Appendix G: Quality Assurance/Quality Control Analyses

APPENDIX G: DATA QUALITY ASSESSMENT

G.1 INTRODUCTION

A standardized Quality Assurance/Quality Control program was followed during the Site Investigation (SI) at Illinois Air National Guard (ILANG) Greater Peoria Regional Airport (GPRA) to ensure the analytical results accurately represent the environmental condition at the sites. The SI was conducted using Hazardous Waste Remedial Actions Program (HAZWRAP) Level C (i.e., United States Environmental Protection Agency Level III) Quality Control (QC) requirements as described in *Requirements For Quality Control Of Analytical Data* (DOE/HWP-65/RI, July 1990) and the guidelines and specifications described in the SI Work Plan.

The environmental samples taken during the SI at ILANG GPRA consisted of 58 soil and 12 pairs of water samples (12 filtered and 12 unfiltered). In addition to the environmental samples a number of QC samples were taken. The QC samples consisted of 6 field duplicates (4 soil and 2 water), 7 equipment rinseates, 6 field blanks, and 28 trip blanks. A listing of the environmental and QC samples taken and the analysis performed is presented in Table G-1.

G.1.1 Data Quality Objectives

Data Quality Objectives (DQOs) are qualitative and quantitative statements developed by data users to specify the quality of data obtained from field and laboratory data collection activities to support specific decisions or regulatory actions. DQOs also establish numeric limits, for the data, to allow the data user to determine if the data collected are of sufficient quality for use in their intended application. The data collected during the SI field effort will be used to develop recommendations for (1) developing and implementing an immediate response plan if required, (2) taking no further action and preparing a Decision Document, (3) initiating a focused feasibility study and remedial measure, (4) proceeding with the feasibility study.

Table G-1 Summary of Analytical Program
ILANG, 182 Airlift Wing, GPRA, Peoria, Illinois

Sample Source	Medium	Total Samples	VOC ¹	SVOC 8270	TAL Metals CLP	TPH
Site 1	Soil Water	22 2	22 2	21 2	14 4 ²	22 2
Site 2	Soil Water	6	6	6	6	6
Site 3	Soil Water	20 6	20 6	20 6	20 12 ²	20 6
Background	Soil Water	10 4	10 4	8 4	9 8 ²	10 4
Total	Soil Water	58 12	58 12	45 12	48 24 ²	58 12
Field Duplicates	Soil Water	4 2	3 2	3 2	3 4 ²	4 2
Equipment Rinseates	Water	7	6	7	6	7
Field Blanks	Water	6	5	5	5	6
Trip Blanks	Water	28	28	-	-	-

NOTES:

1. Second column confirmation was performed for those samples containing compounds greater than detection levels. Water samples were analyzed by 5030\8010/8020. Soil samples were analyzed by 8240.
 2. Filtered and unfiltered water samples were collected.
- VOC Volatile Organic compounds
SVOC Semi-volatile Organic compounds
TAL Target Analyte List
CLP Contract Lab Program
TPH Total Petroleum Hydrocarbons

The following sections summarize the DQOs for the Precision, Accuracy, Representativeness, Comparability, and Completeness (PARCC) parameters obtained during the SI.

G.1.1.1 Precision

Precision refers to the level of agreement among repeated measurements of the same characteristics, under a given set of conditions. Precision is expressed quantitatively as the

measure of the variability of a group of measurements compared to their average value. Precision was defined as the reproducibility, or degree of agreement, among replicate measurements of the same quantity. The closer the numerical values of the measurements are to each other, the more precise the measurement. For this project, precision was assessed through the collection and analysis of field duplicate samples and the performance of analytical replicates. Precision was expressed as the percentage of the difference between results of duplicate samples for a given compound or element. The Relative Percent Difference (RPD) was calculated as:

$$\frac{\frac{Abs(C_1 - C_2)}{\frac{C_1 + C_2}{2}}}{1} \times 100$$

Where: C_1 = Concentration of the compound or element in the sample

C_2 = Concentration of the compound or element in the duplicate/replicate.

Analytical precision was determined using matrix spike/matrix spike duplicate (MS/MSD) and duplicate sample analyses conducted on samples collected for Volatile Organic Compounds (VOCs), Semi-volatile Organic Compounds (SVOCs), and Total Petroleum Hydrocarbons (TPH) during the ILANG GPRA SI. The laboratory selected one sample in 20 and split the sample into two aliquots. MS/MSD samples were prepared by routinely screening the first aliquot for the parameters of interest before analysis, while the remaining aliquot was spiked with known quantities of parameters of interest before analysis. The RPD between the spike results was calculated and used as an indication of the analytical precision for the VOCs, SVOCs, and TPH analyses performed. Duplicate samples for Target Analyte List (TAL) metal analyses were prepared by subdividing the MS/MSD sample and analyzing both samples of the duplicate pair. The RPD between the results of the two samples were calculated and used as an indication of the analytical precision for the analyses performed. The objectives for precision are to have 90% of the RPD values calculated to be within the control limits established by the laboratory.

Twenty-six of the 234 RPD values calculated from the aqueous VOCs analyses failed to met the 20% advisory control limit. None of the 25 RPD values calculated from the soil VOCs analyses were outside the advisory control limits. The control limits for the soil VOCs ranged from 21 to 24%. A detailed summary of the VOCs MS/MSD results and the control limits for the VOCs MS/MSD are listed in Tables G-2 and G-3. None of the 22 RPD values calculated for the water SVOCs analysis were outside the advisory control limits. None of the 77 RPD values calculated for the soil SVOCs analysis were outside the advisory control limits. The control limits for the SVOCs MS/MSD ranged from 19 to 50% for the water and soil analyses. A detailed summary of the SVOC MS/MSD results and the control limits for the SVOCs MS/MSD are listed in Tables G-4 and G-5. None of the five RPD values calculated for water TPH analysis were outside the advisory limit. None of the eight RPD values calculated for the soil TPH analysis were outside the advisory control limit. A detailed summary of the TPH MS/MSD results and the control limits for the TPH MS/MSD are listed in Tables G-6 and G-7. Thirteen of the 47 RPD values calculated for the water TAL metals analyses were outside advisory control limit of 20%. Ten of the 83 RPD values calculated for the soil TAL metals analysis were outside the advisory control limit of 35%. A detailed summary of the TAL metals spike and duplicate results and the control limits for the TAL metals spike and duplicates are listed in Tables G-8 and G-9. The results of the TAL metals spike and duplicate are considered to have little impact on the environmental data quality and considered more likely to be the result of the regional matrix variability, since all other required analytical precision DQOs for priority pollutant metals analyses were met.

These results indicate that overall, only 49 of 501 RPD values calculated for all analyses exceeded their respective control limits. The values represent an analytical precision of 90.2%. Since each analysis was evaluated according to the required QC criteria and all criteria were met for the environmental samples analyzed, these RPD values are considered to be a representative reflection of the variability characteristic of the environmental condition at the facility. As a result of meeting the QC criteria for VOC, SVOC, TPH, and TAL metals the DQOs for analytical precision are considered to have been met.

TABLE G-2 LABORATORY QUALITY CONTROL SUMMARY: WATER MS/MSD VOLATILE ORGANIC COMPOUNDS
 ILANG, 182 Airlift Wing, GPRA, Peoria, Illinois

	Accuracy					Precision				
	Total No. Analyses	Percent Recovery Ranges	Percent Recovery Limits	Number Within Control Limits	Number Outside Control Limits	MSD Total No. Analyses	Range RPD	RPD Limits	Number Within Limits	Number Outside Limits
8010										
Bromodichloromethane	10	83-117	42-172	10	0	5	2-31	20	3	2
Bromobenzene	10	72-117	8-184	10	0	5	5-27	20	4	1
Bromoform	10	50-158	13-159	10	0	5	7-15	20	5	0
Bromomethane	10	69-121	1-144	10	0	5	0-24	20	4	1
Bromochloromethane	10	89-125	49-133	10	0	5	0-22	20	4	1
Carbon tetrachloride	10	95-117	43-143	10	0	5	4-16	20	5	0
2-Chloroethylvinyl ether	10	0	14-186	0	10	5	0	20	5	0
Chloroethane	10	69-129	46-137	10	0	5	2-24	20	3	2
Chloroform	10	86-108	49-133	10	0	5	0-19	20	5	0
Chlorobenzene	10	81-133	38-150	10	0	5	6-21	20	4	1
Chloromethane	10	46-125	1-193	10	0	5	3-21	20	4	1
2-Chlorotoluene	10	78-133	8-184	10	0	5	0-25	20	4	1
4-Chlorotoluene	10	74-117	8-184	10	0	5	2-22	20	4	1
1,2-Dibromoethane	10	36-141	24-191	10	0	5	2-69	20	3	2
Dibromochloromethane	10	69-125	24-191	10	0	5	4-44	20	4	1

MS/MSD Matrix Spike/Matrix Spike Duplicate
 MSD Matrix Spike Duplicate
 RPD Relative Percent Difference

TABLE G-2 (Continued) LABORATORY QUALITY CONTROL SUMMARY: WATER MS/MSD VOLATILE ORGANIC COMPOUNDS
ILANG, 182 Airlift Wing, GPRA, Peoria, Illinois

		Accuracy				Precision					
		Total No. Analyses	Percent Recovery Ranges	Percent Recovery Limits	Number Within Control Limits	Number Outside Control Limits	MSD Total No. Analyses	Range RPD	RPD Limits	Number Within Limits	Number Outside Limits
8010											
Dibromomethane		10	85-133	42-172	10	0	5	0-25	20	4	1
1,2-Dichlorobenzene		10	66-141	1-208	10	0	5	5-19	20	5	0
1,3-Dichlorobenzene		10	88-141	7-187	10	0	5	1-17	20	5	0
1,4-Dichlorobenzene		10	88-133	42-143	10	0	5	1-16	20	5	0
1,1-Dichloroethane		10	86-125	47-132	10	0	5	3-12	20	5	0
1,2-Dichloroethane		10	75-117	51-147	10	0	5	0-32	20	4	1
1,1-Dichloroethene		10	78-125	28-167	10	0	5	0-7	20	5	0
trans-1,2-Dichloroethene		10	93-117	38-155	10	0	5	0-16	20	5	0
1,2-Dichloropropane		10	85-114	44-156	10	0	5	0-25	20	4	1
cis-1,3-Dichloropropene		10	79-118	22-178	10	0	5	0-23	20	4	1
trans-1,3-Dichloropropene		10	81-125	22-178	10	0	5	3-32	20	4	1
Methylene Chloride		10	77-122	25-162	10	0	5	3-12	20	5	0
1,1,2,2-Trichloroethane		10	54-115	8-184	10	0	5	3-26	20	4	1
1,1,1,2-Tetrachloroethane		10	81-133	38-150	10	0	5	9-21	20	4	1

MS/MSD Matrix Spike/Matrix Spike Duplicate
MSD Matrix Spike Duplicate
RPD Relative Percent Difference

TABLE G-2 (Continued) LABORATORY QUALITY CONTROL SUMMARY: WATER MS/MSD VOLATILE ORGANIC COMPOUNDS
 ILANG, 182 Airlift Wing, GPRA, Peoria, Illinois

	Accuracy					Precision				
	Total No. Analyses	Percent Recovery Ranges	Percent Recovery Limits	Number Within Control Limits	Number Outside Control Limits	MSD Total No. Analyses	Range RPD	RPD Limits	Number Within Limits	Number Outside Limits
8010										
Tetrachloroethene	10	89-125	26-162	10	0	5	3-17	20	5	0
1,1,1-Trichloroethane	10	93-120	41-138	10	0	5	2-7	20	5	0
1,1,2-Trichloroethane	10	84-117	39-136	10	0	5	0-23	20	4	1
Trichloroethene	10	97-150	35-146	9	1	5	2-35	20	4	1
1,2,3,-Trichloropropane	10	50-141	8-184	10	0	5	0-39	20	3	2
Vinyl Chloride	10	57-113	26-163	10	0	5	0-19	20	5	0
8020										
Benzene	10	74-134	39-150	10	0	5	6-17	20	5	0
Ethyl benzene	10	70-136	32-160	10	0	5	6-18	20	5	0
Chlorobenzene	10	79-130	55-135	10	0	5	3-16	20	5	0
Methyl-tert-butyl-ether	10	70-109	39-150	10	0	5	0-23	20	4	1
Styrene	10	60-150	32-160	10	0	5	0-18	20	5	0
Toluene	10	71-130	46-148	10	0	5	4-17	20	5	0
1,4-Dimethylbenzene	8	70-101	32-160	8	0	4	12-17	20	4	0
1,3-Dimethylbenzene	8	70-118	32-160	8	0	4	12-17	20	4	0

MS/MSD Matrix Spike/Matrix Spike Duplicate
 MSD Matrix Spike Duplicate
 RPD Relative Percent Difference

TABLE G-2 (Continued) LABORATORY QUALITY CONTROL SUMMARY: WATER MS/MSD VOLATILE ORGANIC COMPOUNDS
ILANG, 182 Airlift Wing, GPRA, Peoria, Illinois

		Accuracy				Precision					
		Total No. Analyses	Percent Recovery Ranges	Percent Recovery Limits	Number Within Control Limits	Number Outside Control Limits	MSD Total No. Analyses	Range RPD	RPD Limits	Number Within Limits	Number Outside Limits
8020											
1,2-Dimethylbenzene		10	74-130	32-160	10	0	5	10-14	20	5	0
o,p-Xylene		2	109-133	32-160	2	0	1	20	20	1	0
1,2-Dichlorobenzene		10	83-129	37-154	10	0	5	7-17	20	5	0
1,3-Dichlorobenzene		10	79-128	42-143	10	0	5	7-17	20	5	0
1,4-Dichlorobenzene		10	80-133	42-143	10	0	5	7-16	20	5	0

MS/MSD Matrix Spike/Matrix Spike Duplicate
MSD Matrix Spike Duplicate
RPD Relative Percent Difference

TABLE G-3 LABORATORY QUALITY CONTROL SUMMARY: SOIL MS/MSD VOLATILE ORGANIC COMPOUNDS
ILANG, 182 Airlift Wing, GPRA, Peoria, Illinois

		Accuracy					Precision				
		Total No. Analyses	Percent Recovery Ranges	Percent Recovery Limits	Number Within Control Limits	Number Outside Control Limits	MSD Total No. Analyses	Range RPD	RPD Limits	Number Within Limits	Number Outside Limits
VOC											
	Cholorbenzene	10	96-114	60-133	10	0	5	-4-12	21	5	0
	1,1-Dichloroethene	10	89-144	59-172	10	0	5	-14-12	22	5	0
	Trichloroethene	10	95-116	62-137	10	0	5	-4-15	24	5	0
	Benzene	10	98-119	66-142	10	0	5	-4-7	21	5	0
	Toluene	10	95-113	59-139	10	0	5	-2-5	21	5	0

Note:

VOC Volatile Organic Compounds
MS/MSD Matrix Spike/Matrix Spike Duplicate
RPD Relative Percent Difference

TABLE G-4 LABORATORY QUALITY CONTROL SUMMARY: WATER MS/MSD SEMI-VOLATILE ORGANIC COMPOUNDS
ILANG, 182 Airlift Wing, GPRA, Peoria, Illinois

	Accuracy					Precision				
	Total No. Analyses	Percent Recovery Ranges	Percent Recovery Limits	Number Within Control Limits	Number Outside Control Limits	MSD Total No. Analyses	Range RPD	RPD Limits	Number Within Limits	Number Outside Limits
Phenol	4	9-63	12-89	2	2	2	-11-10	42	2	0
2-Chlorophenol	4	22-91	27-123	2	2	2	0-8	40	2	0
1,4-Dichlorobenzene	4	71-81	36-97	4	0	2	-8-4	28	2	0
n-Nitroso-di-n-propylamine	4	66-78	41-116	4	0	2	-9-(-7)	38	2	0
1,2,4-Trichlorobenzene	4	70-81	39-98	4	0	2	-11-(-6)	28	2	0
4-Chloro-3-methylphenol	4	11-102	23-97	1	3	2	6-9	42	2	0
Ancenapthene	4	74-91	46-118	4	0	2	-10-9	31	2	0
4-Nitrophenol	4	66-91	10-80	4	0	2	-3-1	50	2	0
2,4-Dinitrotoluene	4	64-77	24-96	4	0	2	-12-(-8)	38	2	0
Pentachlorophenol	4	44-72	9-103	4	0	2	-20-0	50	2	0
Pyrene	4	90-101	26-127	4	0	2	-5-9	31	2	0

Note:

MS/MSD Matrix Spike/Matrix Spike Duplicate
MSD Matrix Spike Duplicate
RPD Relative Percent Difference

TABLE G-5 LABORATORY QUALITY CONTROL SUMMARY: SOIL MS/MSD SEMI-VOLATILE ORGANIC COMPOUNDS
ILANG, 182 Airlift Wing, GPRA, Peoria, Illinois

	Accuracy					Precision				
	Total No. Analyses	Percent Recovery Ranges	Percent Recovery Limits	Number Within Control Limits	Number Outside Control Limits	MSD Total No. Analyses	Range RPD	RPD Limits	Number Within Limits	Number Outside Limits
Phenol	14	48-85	26-90	14	0	7	-8-0	35	7	0
2-Chlorophenol	14	54-85	25-102	14	0	7	-5-0	50	7	0
1,4-Dichlorobenzene	14	51-73	28-104	14	0	7	-8-5	27	7	0
n-Nitroso-di-n-propylamine	14	44-64	41-126	14	0	7	-5-(-2)	38	7	0
1,2,4-Trichlorobenzene	14	53-79	38-107	14	0	7	-7-4	23	7	0
4-Chloro-3-methylphenol	14	58-97	26-103	14	0	7	-11-1	33	7	0
Ancenaphthene	14	58-90	31-137	14	0	7	-9-0	19	7	0
4-Nitrophenol	14	62-115	11-114	13	1	7	-29-(-3)	50	7	0
2,4-Dinitrotoluene	14	44-81	28-89	14	0	7	-12-(-4)	47	7	0
Pentachlorophenol	14	40-115	17-109	12	2	7	-14-3	47	7	0
Pyrene	14	65-90	35-142	14	0	7	-12-0	36	7	0

Note:

MS/MSD Matrix Spike/Matrix Spike Duplicate
MSD Matrix Spike Duplicate
RPD Relative Percent Difference

TABLE G-6 LABORATORY QUALITY CONTROL SUMMARY: WATER MS/MSD TPH
 ILANG, 182 Airlift Wing, GPRA, Peoria, Illinois

Accuracy											Precision			
	Total No. Analyses	Percent Recovery Ranges	Percent Recovery Limits	Number Within Control Limits	Number Outside Control Limits	MSD Total No. Analyses		Range RPD	RPD Limits	Number Within Limits	Number Outside Limits			
Total Petroleum Hydrocarbons	10	90-109		10	0	5		1-5	20	5	10			

Note:

MS/MSD Matrix Spike/Matrix Spike Duplicate
 MSD Matrix Spike Duplicate
 RPD Relative Percent Difference

TABLE G-7 LABORATORY QUALITY CONTROL SUMMARY: SOIL MS/MSD TPH
ILANG, 182 Airlift Wing, GPRA, Peoria, Illinois

		Accuracy				Precision				
	Total No. Analyses	Percent Recovery Ranges	Percent Recovery Limits	Number Within Control Limits	Number Outside Control Limits	MSD Total No. Analyses	Range RPD	RPD Limits	Number Within Limits	Number Outside Limits
Total Petroleum Hydrocarbons	16	81-130		16	0	8	8-19	20	8	0

Note:

MS/MSD Matrix Spike/Matrix Spike Duplicate
 MSD Matrix Spike Duplicate
 RPD Relative Percent Difference

TABLE G-8 LABORATORY QUALITY CONTROL SUMMARY: WATER MS/MSD METALS
ILANG, 182 Airlift Wing, GPRA, Peoria, Illinois

	Accuracy					Precision				
	Total No. Analyses	Percent Recovery Ranges	Percent Recovery Limits	Number Within Control Limits	Number Outside Control Limits	MSD Total No. Analyses	Range RPD	RPD Limits	Number Within Limits	Number Outside Limits
Aluminum	4	96-228	75-125	3	1	4	1-29	20	1	3
Antimony	4	85-104	75-125	4	0	1	200	20	0	1
Arsenic	4	84-104	75-125	4	0	3	35-200	20	0	3
Barium	4	84-104	75-125	4	0	4	0-13	20	4	0
Beryllium	4	93-108	75-125	4	0	1	200	20	0	1
Cadmium	4	83-110	75-125	4	0					
Calcium	0					4	0-14	20	4	0
Chromium	4	82-106	75-125	4	0	1	12	20	1	0
Cobalt	4	85-104	75-125	4	0					
Copper	4	85-106	75-125	4	0	2	10-24	20	1	1
Iron	4	98-256	75-125	2	2	3	0-31	20	2	1
Lead	4	68-73	75-125	0	4	2	7-9	20	2	0
Magnesium	0					4	0-14	20	4	0
Manganese	4	75-103	75-125	4	0	4	0-13	20	4	0
Mercury	4	105-115	75-125	4	0					
Nickel	4	82-104	75-125	4	0	2	200	20	0	2
Potassium	0					3	4-16	20	3	0
Selenium	4	57-87	75-125	1	3					
Silver	4	83-93	75-125	4	0					
Sodium	0					4	0-15	20	4	0
Thallium	4	40-65	75-125	0	4					
Vanadium	4	85-105	75-125	4	0	1	0	20	1	0
Zinc	4	85-107	75-125	4	0	4	3-30	20	3	1

Note:

MS/MSD Matrix Spike Duplicate
MSD Matrix Spike Duplicate
RPD Relative Percent Difference

TABLE G-9 LABORATORY QUALITY CONTROL SUMMARY: SOIL MS/MSD METALS
 ILANG, 182 Airlift Wing, GPRA, Peoria, Illinois

Accuracy										
	Accuracy				Precision					
	Total No. Analyses	Percent Recovery Ranges	Percent Recovery Limits	Number Within Control Limits	Number Outside Control Limits	MSD Total No. Analyses	Range RPD	RPD Limits	Number Within Limits	Number Outside Limits
Aluminum	0					5	2-23	35	5	0
Antimony	5	11-47	75-125	0	5	0				
Arsenic	5	47-179	75-125	3	2	5	0-44	35	2	3
Barium	5	90-92	75-125	5	0	5	0-33	35	5	0
Beryllium	5	90-103	75-125	5	0	4	1-30	35	4	0
Cadmium	5	85-101	75-125	5	0	0				
Calcium	0					5	0-121	35	4	1
Chromium	5	85-104	75-125	5	0	5	7-61	35	4	1
Cobalt	5	90-96	75-125	5	0	5	0-46	35	4	1
Copper	5	91-102	75-125	5	0	5	0-28	35	5	0
Iron	0					5	6-46	35	4	1
Lead	5	63-228	75-125	1	4	5	7-45	35	4	1
Magnesium	0					5	5-24	35	5	0
Manganese	5	106-340	75-125	1	4	5	1-34	35	5	0
Mercury	5	100-177	75-125	1	4	0				
Nickel	5	93-100	75-125	5	0	5	4-33	35	5	0
Potassium	0					4	11-200	35	2	2
Selenium	5	37-90	75-125	4	1	0				
Silver	5	59-90	75-125	4	1	0				
Sodium	0					5	1-17	35	5	0
Thallium	5	71-94	75-125	4	1	0				
Vanadium	5	86-95	75-125	5	0	5	0-32	35	5	0
Zinc	5	90-103	75-125	5	0	5	1-32	35	5	0

Note:

MS/MSD Matrix Spike/Matrix Spike Duplicate
 MSD Matrix Spike Duplicate
 RPD Relative Percent Difference

Field Replicates

Sampling precision was assessed through the collection of field replicate samples. Initially, one replicate environmental sample was collected for every ten environmental samples, as required by DOE/HWP-65/RI. However, the laboratory analyzed several soil samples that were placed on hold and were not to be analyzed. The samples placed on hold were analyzed after the field effort had been completed and additional replicate samples could not be obtained. The data for the additional soil samples have been included in the data evaluation since it provides additional information regarding status of the sites at the facility. The lack of the required number of field replicates is not deemed to have effected overall data quality. Sample collection reproducibility and media variability were measured in the laboratory by the analysis of field replicates. Field RPD values were calculated only for those compounds and elements detected above the Contract Required Detection Limits (CRDLs) in both replicate pair samples and only for those compounds and elements not considered to be common laboratory contaminants (e.g., methylene chloride). Increased percent differences were expected for all analytes detected in soil samples, since all samples remained in stainless sleeves (i.e., not mixed) after the sampling equipment was retrieved from the borehole. The field replicate for each soil analysis was obtained from the adjacent sleeve. Water samples were split into different sample containers upon sampling. SVOCs and VOCs were not detected above the CRDLs in the replicate soil and water samples collected for these analysis. Therefore, RPD values were not calculated for these analyses. TPH above the CRDLs were detected in all four replicate soil pairs. Three of the four calculated values for TPH exceeded the RPD limit of 35% for soil. TPH above the CRDLs was detected in one of the two replicate groundwater samples. The RPD value for the duplicate TPH aqueous sample was within aqueous RPD control limits of 25%. Three replicate soil pairs and two duplicate water samples were used to evaluate priority pollutant metals concentrations and to evaluate sample collection reproducibility and matrix variability at ILANG, GPRA. Four of the 29 calculated soil RPD values were greater than 35%. Five of the 20 calculated RPD values for aqueous samples were greater than 25%. These results indicate a sampling precision of 79.2%.

Based on the laboratory precision of 90.2% and the sampling precision of 79.2%, an overall precision of 89.2% was achieved. Based on these results the DQO for precision has been met. No corrective action was taken based on RPD values. A complete discussion of all replicate samples is presented in Section G.2.4.

G.1.1.2 Accuracy

Accuracy was defined as the degree of difference between measured or calculated values and the true value. The closer the numerical value of the measurement approaches the true value, or actual concentration, the more accurate the measurement. Analytical accuracy is expressed as the percent recovery of a compound or element that has been added to the environmental sample at a known concentration before analysis. The following equation was used to calculate percent recovery

recovery:

$$\frac{A_t - A_o}{A_f} \times 100$$

Where: A_t = Total compound or element concentration detected in the spiked sample

A_o = Concentration of the compound or element detected in the unspiked sample

A_f = Concentration of the compound or element added to the sample

Objectives for accuracy were to have 90% of the data within the specified percent recovery levels for that compound or element. Laboratory accuracy was qualitatively assessed by evaluating the following laboratory QC information: surrogate recovery (Gas Chromatograph/Matrix Spike (GC/MS) only), internal standard (GC/MS only), laboratory control sample and method blank spike recovery from all analyses conducted on environmental samples.

Percent Recoveries

None of the 50 percent recoveries from the soils analysis were outside the control limits for MS/MSD analyses conducted on the soil samples collected and analyzed for VOCs. Eleven of the 468 percent recoveries from the aqueous 8010/8020 analysis were outside the respective percent recovery limits. VOCs sample delivery groups 346, 220, 221, and 136 reported zero percent recovery for 2-chloroethyl-vinyl ether (2-CEVE). The zero percent recovery for the aqueous sample delivery groups is not considered to have effected overall laboratory accuracy for VOCs since 2-CEVE is not a target compound. Established control limits for VOCs percent recovery are presented in Tables G-2 and G-3. Sample GPA-SB reported low, but greater than 10% surrogate recoveries. Since the surrogate recoveries were greater than 10%, the data was not rejected and analytical accuracy was not effected.

Seven of the 44 percent recoveries were outside the control limits for the water analyses. Three of the 154 percent recoveries were outside the control limits for the soil analyses. Established control limits for SVOCs percent recovery are presented in Tables G-4 and G-5. All supporting SVOCs QC information cited above was also qualitatively evaluated with respect to the analytical accuracy DQO. Samples GPA-S3A-MW1-GW2, GPA-SBG-MW2-GW2, and GPA-SBG-MW1-GW1 reported poor surrogate recoveries, less than 10 percent, for acid fraction compounds. Reanalysis of the samples reported identical results. The accuracy of the compounds associated with the acid fraction are deemed to be effected by the low recovery of the acid surrogates. Therefore, compounds corresponding to the acid fraction were qualified "R" indicating unreliable results due to failure of surrogate requirements. Sample GPA-S1-SB1-SS0-2 reported low surrogate recoveries for all surrogates. Reanalysis of the sample reported acceptable surrogate recoveries indicating possible laboratory control problems for the initial analysis. The reanalysis of GPA-S1-SB1-SS0-2 is deemed to be accurate and is used in place of the initial analysis.

None of the ten water percent recoveries and none of the 16 soil percent recoveries calculated for the TPH MS/MSD exceeded recovery limits. Established control limits for TPH percent recoveries are presented in Tables G-6 and G-7.

Twenty-two of the 85 soil TAL metals percent recovery values and 14 of the 76 aqueous percent recovery values from the matrix spike analyses conducted on the soil and aqueous samples collected at ILANG GPRA, exceeded recovery limits. Established control limits for TAL metals percent recovery are presented in Tables G-8 and G-9. These percent recovery values are considered to be a characteristic of the environmental matrix conditions at the facility. All supporting TAL metals Quality Assurance (QA) information cited above were also qualitatively evaluated with respect to the analytical accuracy DQO. These results are not considered to have any adverse impact on the environmental data quality.

Sampling accuracy was maximized by adherence to the strict QA program presented in the SI Quality Assurance Project Plan (QAPP). All procedures (i.e., soil boring installation, soil samples collection procedures, and health monitoring equipment calibration and operation) used during the SI were documented as Standard Operating Procedures (SOPs). Field QA blanks (i.e., trip blanks, field blanks, and equipment blanks) were prepared such that all samples represented the particular site from which they were collected, and assessed any cross-contamination that may have occurred. The environmental samples associated with the appropriate field QA samples were qualified based on the potential contaminants contained in the field QA samples.

Trip blanks

Methylene chloride was detected in 11 of 28 trip blanks analyzed. In addition to methylene chloride, low levels of bromobenzene, bromoform, chloroform, 2-chlorotoulene, 1,3-dimethylbenzene, 1,2-dimethylbenzene, ethylbenzene, 1,1,1,2-tetrachloroethane, trichloroethene, and toluene were also detected in one or more of the trip blanks at levels below the Contrct Required Quantitation Limit (CRQL).

Field Blank

Low levels of bromoform, bromodichloromethane, chloroform, dibromochloromethane, 1,2-dichlorobenzene, di-n-butyl phthalate, methylene chloride, toluene, arsenic, barium, calcium, copper, lead, magnesium, manganese, sodium, zinc, and TPH were detected in selected field blanks prepared during the SI. The brominated compounds are attributed to the potable water source. TPH was detected in one field blank at low concentrations. The low levels detected in the field blanks are not considered to have contributed to any levels seen in the associated environmental samples.

Equipment Rinseates.

Equipment rinseates collected during the SI indicated low levels of chloroform, bromoform, methylene chloride, toluene, trichloroethylene, 1,1,2,2-tetrachloroethane, di-n-butyl phthalate, bis(2-ethylmethyl)phthalate, aluminum, barium, calcium, copper, iron, magnesium, sodium, iron, zinc, and TPH. Based on an evaluation of the compounds detected in the field QC blanks, overall field accuracy is deemed acceptable. A complete discussion of field QC results is presented in Section G.2.

G.1.1.3 Representativeness

Representativeness was defined as the degree to which the data accurately and precisely represent a characteristic of a population, parameter variations at a sampling location, a process condition, or an environmental condition. Sample representativeness was ensured during the SI by collecting sufficient samples of a population medium, properly distributed with respect to location and time. Representativeness was assessed by reviewing the drilling and sample collection methods used during the ILANG GPRA SI, and evaluating the RPD values calculated from the duplicate samples and the concentrations of interferents detected in the

field and laboratory QC blanks. The reproducibility of a representative set of samples reflects the degree of heterogeneity of the sampled medium, as well as the effectiveness of the sampling techniques.

Soil samples were collected from three sites (Sites 1, 2, and 3[a b, & c]). All borings were advanced with a truck-mounted drilling rig using continuous-flight hollow stem augers. A minimum of two soil samples were collected for laboratory analysis from each soil boring. One sample was collected from just below the ground surface and the second from unsaturated soils just above the water table. A third and fourth sample were sometimes collected based on Photo Ionization Detector (PID) results and lithology. Samples were obtained using a split-spoon sampler equipped with stainless steel liners. Blow counts recording relative soil density were noted. Split-spoon samples were field-logged according to the Unified Soil Classification System and field-screened with a PID meter and field GC for VOCs concentrations. The boring was backfilled with a cement/bentonite slurry. The borings were marked at the surface and surveyed. Soil cuttings were placed in 55 gal drums for later analysis as required before disposal of the soil. Groundwater samples were obtained after development of each well. The monitoring wells were allowed to recharge, purged, and then sampled. The volume of water in each well casing was calculated prior to purging. Four to five casing volumes were removed from each well during the purging process. A decontaminated Teflon® bailer was used to remove the stagnant groundwater from each well. Color, degree of turbidity, odor and other physical properties of the water were recorded during development. Additionally, measurement of the pH, temperature, and conductivity of the groundwater were obtained before and after purging, and prior to sampling. These data were collected to ensure a representative groundwater sample was being collected.

Based on the evaluation of the factors described above and summarized in Section G .3 the samples collected during the SI are considered to be representative of the environmental conditions at ILANG GPRA.

G.1.1.4 Comparability

Comparability is a qualitative parameter expressing the confidence with which one data set can be compared to another and is limited to the other PARCC parameters, because only when precision and accuracy are known can one data set be compared to another. To optimize comparability only the specific methods and protocols that were specified in the SI QAPP were used to collect and analyze samples during the SI. By using consistent sampling and analysis procedures, all data sets are comparable within the three sites at ILANG GPRA, between the three sites, or among Air National Guard facilities nationwide. This consistency ensures that remedial action decision and priorities are based on a consistent data base. Comparability was ensured by the analysis of Environmental Protection Agency (EPA) reference material, establishing that the analytical procedures used were generating valid data.

All samples collected for VOCs and SVOCs analyses were analyzed using the SW-846 8010/8020 (aqueous) VOC, SW-846 8240 (soil) VOC, and SW-846 8270 SVOC respectively. Samples collected for metals were analyzed using Contract Lab Program methods.

Based on the precision and accuracy assessment presented above, the data collected during the SI are considered to be comparable with the data collected during previous investigations.

G.1.1.5 Completeness

Completeness was defined as the percentage of valid data obtained from a measurement system. Valid data are those data that have not been rejected after the data validation process. Based on the evaluation of the laboratory QC results for the 9315 data points presented in Appendix I, these data were considered equal to 95.4%, and as such, were used as the basis of all recommendations presented in this report. Twenty-seven SVOC data points were rejected for use because the data was qualified "R" indicating unreliable results due to surrogate and internal standard recoveries. Three hundred and ninety-seven data points were

qualified "B", indicating possible contamination from field blanks, equipment rinseates, trip blanks, and/or method blanks. The data points qualified "R" and "B" are presented in Table G-10.

Based on the evaluation of the laboratory QC results 95.4% of the total environmental data collected during the SI were used as the basis of all recommendations presented in this report. A complete list of all data points obtained during the SI is included in Appendix I.

G.2 FIELD QUALITY CONTROL ASSESSMENT

Twenty-eight trip blanks, six field blanks, seven equipment rinseates, and six field replicates were collected and analyzed by the same SOPs and methods used for the 71 environmental samples. Table G-11 contains a cross-reference of the associated field QC blank samples.

G.2.1 Trip Blanks

Twenty-eight trip blanks were prepared and analyzed by Compuchem Laboratory in North Carolina. The blanks were prepared using ASTM Type II water. The trip blanks were stored with the unused sample bottles and returned to the laboratory with each cooler containing environmental samples to be analyzed for VOCs. Methylene chloride was detected in 11 of 28 trip blanks at levels less than ten times the associated laboratory samples and were considered blank contamination and were qualified "B" accordingly. Concentrations in 12 trip blanks could not be attributed to the laboratory environment and these results were used to qualify the associated environmental samples. In addition to methylene chloride, low levels of bromobenzene, bromoform, chloroform, 2-chlorotoulene, 1,3-dimethylbenzene, 1,2-dimethylbenzene, ethylbenzene, 1,1,1,2-tetrachloroethane, trichloroethene, and toluene were detected in most of the trip blanks at levels below the CRQL. Table G-12 summarizes the concentrations of the VOCs detected in the trip blanks collected during the SI field effort.

TABLE G-10 DATA POINTS QUALIFIED "B" AND "R"
ILANG, 182 Airlift Wing, GPRA, Peoria, Illinois

SITE	SAMPLE ID	ANALYTE	RESULT	UNITS	QUALIFIER	METHOD
GPA-S1	GPA-S1-MW1-GW1	Chloroform	0.34	ug/l	B	8010
GPA-S1	GPA-S1-MW1-GW1	Sodium, Dissolved	18000	ug/l	B	CLP
GPA-S1	GPA-S1-MW1-GW1	Aluminum, Dissolved	72	ug/l	(I)B	CLP
GPA-S1	GPA-S1-MW1-GW1	Zinc	78	ug/l	B	CLP
GPA-S1	GPA-S1-MW1-GW1	Potassium	5770	ug/l	B	CLP
GPA-S1	GPA-S1-MW1-GW1	Calcium	177000	ug/l	B	CLP
GPA-S1	GPA-S1-MW1-GW1	Copper	18.70	ug/l	(I)B	CLP
GPA-S1	GPA-S1-MW1-GW1	Methylene chloride	0.18	ug/l	B	8010
GPA-S1	GPA-S1-MW1-GW1	Barium, Dissolved	146	ug/l	(I)B	CLP
GPA-S1	GPA-S1-MW1-GW1	Calcium, Dissolved	125000	ug/l	B	CLP
GPA-S1	GPA-S1-MW1-GW1	Sodium	16900	ug/l	B	CLP
GPA-S1	GPA-S1-MW1-GW1	Magnesium	91900	ug/l	B	CLP
GPA-S1	GPA-S1-MW1-GW1	Magnesium, Dissolved	57600	ug/l	B	CLP
GPA-S1	GPA-S1-MW1-GW2	Methylene chloride	0.22	ug/l	B	8010
GPA-S1	GPA-S1-MW1-GW2	Toluene	0.81	ug/l	B	8020
GPA-S1	GPA-S1-MW1-GW2	Copper	7	ug/l	(I)B	CLP
GPA-S1	GPA-S1-MW1-GW2	Zinc, Dissolved	10.40	ug/l	(I)B	CLP
GPA-S1	GPA-S1-MW1-GW2	Lead	3	ug/l	B	CLP
GPA-S1	GPA-S1-MW1-GW2	Barium	161	ug/l	(I)B	CLP
GPA-S1	GPA-S1-MW1-GW2	Calcium	151000	ug/l	B	CLP
GPA-S1	GPA-S1-MW1-GW2	Calcium, Dissolved	124000	ug/l	B	CLP
GPA-S1	GPA-S1-MW1-GW2	Aluminum, Dissolved	65.60	ug/l	(I)B	CLP
GPA-S1	GPA-S1-MW1-GW2	Barium, Dissolved	162	ug/l	(I)B	CLP
GPA-S1	GPA-S1-MW1-GW2	Magnesium	76100	ug/l	B	CLP
GPA-S1	GPA-S1-MW1-GW2	Magnesium, Dissolved	58000	ug/l	B	CLP
GPA-S1	GPA-S1-MW1-GW2	Sodium	17600	ug/l	B	CLP
GPA-S1	GPA-S1-MW1-GW2	Sodium, Dissolved	17900	ug/l	B	CLP
GPA-S1	GPA-S1-MW1-GW2	Zinc	40.80	ug/l	B	CLP
GPA-S1	GPA-S1-MW1-SS04-05	2-Propanone	79	ug/kg	B	8240
GPA-S1	GPA-S1-MW1-SS04-05	Methylene chloride	21	ug/kg	B	8240
GPA-S1	GPA-S1-MW1-SS08-09	2-Propanone	61	ug/kg	B	8240
GPA-S1	GPA-S1-MW1-SS08-09	Methylene chloride	44	ug/kg	B	8240
GPA-S1	GPA-S1-SB1-SS10-12	Chloroform	1	ug/kg	B	8240
GPA-S1	GPA-S1-SB1-SS10-12	Sodium	276	mg/kg	(I)B	CLP
GPA-S1	GPA-S1-SB1-SS10-12	Methylene chloride	33	ug/kg	B	8240
GPA-S1	GPA-S1-SB1-SS2-4	2-Propanone	19	ug/kg	B	8240
GPA-S1	GPA-S1-SB1-SS2-4	Methylene chloride	41	ug/kg	B	8240
GPA-S1	GPA-S1-SB1-SS4-6	Sodium	261	mg/kg	(I)B	CLP
GPA-S1	GPA-S1-SB1-SS4-6	Methylene chloride	41	ug/kg	B	8240
GPA-S1	GPA-S1-SB1-SS4-6	2-Propanone	14	ug/kg	B	8240
GPA-S1	GPA-S1-SB1-SS6-8	Sodium	285	mg/kg	(I)B	CLP
GPA-S1	GPA-S1-SB1-SS6-8	2-Propanone	10	ug/kg	B	8240
GPA-S1	GPA-S1-SB1-SS6-8	Chloroform	2	ug/kg	B	8240
GPA-S1	GPA-S1-SB1-SS6-8	Methylene chloride	21	ug/kg	B	8240
GPA-S1	GPA-S1-SB2-SS0-2	Chloroform	2	ug/kg	B	8240
GPA-S1	GPA-S1-SB2-SS0-2	2-Propanone	33	ug/kg	B	8240
GPA-S1	GPA-S1-SB2-SS0-2	Methylene chloride	19	ug/kg	B	8240
GPA-S1	GPA-S1-SB2-SS2-4	Chloroform	1	ug/kg	B	8240
GPA-S1	GPA-S1-SB2-SS2-4	2-Propanone	64	ug/kg	B	8240
GPA-S1	GPA-S1-SB2-SS2-4	Methylene chloride	21	ug/kg	B	8240
GPA-S1	GPA-S1-SB2-SS4-6	2-Propanone	73	ug/kg	B	8240
GPA-S1	GPA-S1-SB2-SS4-6	Methylene chloride	20	ug/kg	B	8240

TABLE G-10 DATA POINTS QUALIFIED "B" AND "R"
ILANG, 182 Airlift Wing, GPRA, Peoria, Illinois

SITE	SAMPLE ID	ANALYTE	RESULT	UNITS	QUALIFIER	METHOD
GPA-S1	GPA-S1-SB3-SS10-12	Methylene chloride	42	ug/kg	B	8240
GPA-S1	GPA-S1-SB3-SS10-12	2-Propanone	30	ug/kg	B	8240
GPA-S1	GPA-S1-SB3-SS10-12	Chloroform	1	ug/kg	B	8240
GPA-S1	GPA-S1-SB3-SS2-4	2-Propanone	32	ug/kg	B	8240
GPA-S1	GPA-S1-SB3-SS2-4	Chloroform	2	ug/kg	B	8240
GPA-S1	GPA-S1-SB3-SS2-4	Methylene chloride	38	ug/kg	B	8240
GPA-S1	GPA-S1-SB3-SS4-6	Methylene chloride	58	ug/kg	B	8240
GPA-S1	GPA-S1-SB3-SS4-6	2-Propanone	54	ug/kg	B	8240
GPA-S1	GPA-S1-SB3-SS6-8	2-Propanone	67	ug/kg	B	8240
GPA-S1	GPA-S1-SB3-SS6-8	Chloroform	2	ug/kg	B	8240
GPA-S1	GPA-S1-SB3-SS6-8	Methylene chloride	54	ug/kg	B	8240
GPA-S1	GPA-S1-SB3-SS8-10	2-Propanone	35	ug/kg	B	8240
GPA-S1	GPA-S1-SB3-SS8-10	Methylene chloride	29	ug/kg	B	8240
GPA-S1	GPA-S1-SB4-SS0-2	Methylene chloride	45	ug/kg	B	8240
GPA-S1	GPA-S1-SB4-SS0-2	2-Propanone	47	ug/kg	B	8240
GPA-S1	GPA-S1-SB4-SS0-2	Chloroform	2	ug/kg	B	8240
GPA-S1	GPA-S1-SB4-SS2-4	2-Propanone	66	ug/kg	B	8240
GPA-S1	GPA-S1-SB4-SS2-4	Toluene	3	ug/kg	B	8240
GPA-S1	GPA-S1-SB4-SS2-4	Chloroform	2	ug/kg	B	8240
GPA-S1	GPA-S1-SB4-SS2-4	Methylene chloride	54	ug/kg	B	8240
GPA-S1	GPA-S1-SB4-SS4-6	2-Propanone	100	ug/kg	B	8240
GPA-S1	GPA-S1-SB4-SS4-6	Methylene chloride	38	ug/kg	B	8240
GPA-S1	GPA-S1-SB4-SS4-6	Chloroform	2	ug/kg	B	8240
GPA-S1	GPA-S1-SB4-SS6-8	2-Propanone	72	ug/kg	B	8240
GPA-S1	GPA-S1-SB4-SS6-8	Chloroform	2	ug/kg	B	8240
GPA-S1	GPA-S1-SB4-SS6-8	Methylene chloride	28	ug/kg	B	8240
GPA-S1	GPA-S1-SB5-SS0-2	bis(2-Ethylhexyl)phthalate	90	ug/kg	B	8270
GPA-S1	GPA-S1-SB5-SS12-14	bis(2-Ethylhexyl)phthalate	73	ug/kg	B	8270
GPA-S1	GPA-S1-SB5-SS12-14	Methylene chloride	21	ug/kg	B	8240
GPA-S1	GPA-S1-SB5-SS2-4	bis(2-Ethylhexyl)phthalate	44	ug/kg	B	8270
GPA-S1	GPA-S1-SB5-SS2-4	2-Propanone	39	ug/kg	B	8240
GPA-S1	GPA-S1-SB5-SS2-4	Chloroform	1	ug/kg	B	8240
GPA-S1	GPA-S1-SB5-SS2-4	Methylene chloride	32	ug/kg	B	8240
GPA-S1	GPA-S1-SB5-SS4-6	2-Propanone	45	ug/kg	B	8240
GPA-S1	GPA-S1-SB5-SS4-6	Chloroform	2	ug/kg	B	8240
GPA-S1	GPA-S1-SB5-SS4-6	Methylene chloride	33	ug/kg	B	8240
GPA-S1	GPA-S1-SB5-SS6-8	2-Propanone	9	ug/kg	B	8240
GPA-S1	GPA-S1-SB5-SS6-8	Chloroform	1	ug/kg	B	8240
GPA-S1	GPA-S1-SB5-SS6-8	Methylene chloride	25	ug/kg	B	8240
GPA-S1	GPA-S1-SB5-SS6-8	bis(2-Ethylhexyl)phthalate	53	ug/kg	B	8270
GPA-S1	GPA-S1-SB5-SS8-10	Methylene chloride	26	ug/kg	B	8240
GPA-S1	GPA-S1-SB5-SS8-10	2-Propanone	8	ug/kg	B	8240
GPA-S2	GPA-S2-SB1-SS0-2	Sodium	245	mg/kg	()B	CLP
GPA-S2	GPA-S2-SB1-SS0-2	Di-n-butyl phthalate	42	ug/kg	B	8270
GPA-S2	GPA-S2-SB1-SS5-7	Sodium	257	mg/kg	()B	CLP
GPA-S2	GPA-S2-SB1-SS5-7	2-Propanone	18	ug/kg	B	8240
GPA-S2	GPA-S2-SB1-SS5-7	Methylene chloride	39	ug/kg	B	8240
GPA-S2	GPA-S2-SB2-SS0-2	Di-n-butyl phthalate	46	ug/kg	B	8270
GPA-S2	GPA-S2-SB2-SS0-2	2-Propanone	16	ug/kg	B	8240
GPA-S2	GPA-S2-SB2-SS0-2	Methylene chloride	54	ug/kg	B	8240
GPA-S2	GPA-S2-SB2-SS0-2	Sodium	223	mg/kg	()B	CLP
GPA-S2	GPA-S2-SB2-SS0-2	bis(2-Ethylhexyl)phthalate	67	ug/kg	B	8270

TABLE G-10 DATA POINTS QUALIFIED "B" AND "R"
ILANG, 182 Airlift Wing, GPRA, Peoria, Illinois

SITE	SAMPLE ID	ANALYTE	RESULT	UNITS	QUALIFIER	METHOD
GPA-S2	GPA-S2-SB2-SS4-6	2-Propanone	20	ug/kg	B	8240
GPA-S2	GPA-S2-SB2-SS4-6	Methylene chloride	33	ug/kg	B	8240
GPA-S2	GPA-S2-SB2-SS4-6	Sodium	185	mg/kg	()B	CLP
GPA-S2	GPA-S2-SB3-SS0-2	Sodium	222	mg/kg	()B	CLP
GPA-S2	GPA-S2-SB3-SS0-2	2-Propanone	11	ug/kg	B	8240
GPA-S2	GPA-S2-SB3-SS0-2	Methylene chloride	26	ug/kg	B	8240
GPA-S2	GPA-S2-SB3-SS0-2	Di-n-butyl phthalate	55	ug/kg	B	8270
GPA-S2	GPA-S2-SB3-SS5-7	Methylene chloride	32	ug/kg	B	8240
GPA-S2	GPA-S2-SB3-SS5-7	2-Propanone	14	ug/kg	B	8240
GPA-S2	GPA-S2-SB3-SS5-7	Sodium	224	mg/kg	()B	CLP
GPA-S3A	GPA-S3A-MW1-GW1	Zinc, Dissolved	11.50	ug/l	()B	CLP
GPA-S3A	GPA-S3A-MW1-GW1	Chloroform	0.67	ug/l	B	8010
GPA-S3A	GPA-S3A-MW1-GW1	Methylene chloride	0.70	ug/l	B	8010
GPA-S3A	GPA-S3A-MW1-GW1	1,2-Dichlorobenzene	0.26	ug/l	B	8020
GPA-S3A	GPA-S3A-MW1-GW1	1,3-Dichlorobenzene	0.09	ug/l	B	8020
GPA-S3A	GPA-S3A-MW1-GW1	1,4-Dichlorobenzene	0.13	ug/l	B	8020
GPA-S3A	GPA-S3A-MW1-GW1	Butyl benzyl phthalate	2	ug/l	B	8270
GPA-S3A	GPA-S3A-MW1-GW1	Barium, Dissolved	204	ug/l	B	CLP
GPA-S3A	GPA-S3A-MW1-GW1	Zinc	211	ug/l	B	CLP
GPA-S3A	GPA-S3A-MW1-GW1	Magnesium, Dissolved	34400	ug/l	B	CLP
GPA-S3A	GPA-S3A-MW1-GW1	Calcium, Dissolved	87300	ug/l	B	CLP
GPA-S3A	GPA-S3A-MW1-GW1	Copper	51.30	ug/l	B	CLP
GPA-S3A	GPA-S3A-MW1-GW1	Magnesium	81300	ug/l	B	CLP
GPA-S3A	GPA-S3A-MW1-GW1	Calcium	156000	ug/l	B	CLP
GPA-S3A	GPA-S3A-MW1-GW1	Potassium	13100	ug/l	B	CLP
GPA-S3A	GPA-S3A-MW1-GW1	Potassium, Dissolved	4420	ug/l	()B	CLP
GPA-S3A	GPA-S3A-MW1-GW1	Sodium	69300	ug/l	B	CLP
GPA-S3A	GPA-S3A-MW1-GW1	Sodium, Dissolved	72200	ug/l	B	CLP
GPA-S3A	GPA-S3A-MW1-GW1	Aluminum, Dissolved	355	ug/l	B	CLP
GPA-S3A	GPA-S3A-MW1-GW2	Iron, Dissolved	50.50	ug/l	()B	CLP
GPA-S3A	GPA-S3A-MW1-GW2	Potassium	2310	ug/l	()B	CLP
GPA-S3A	GPA-S3A-MW1-GW2	Potassium, Dissolved	3090	ug/l	()B	CLP
GPA-S3A	GPA-S3A-MW1-GW2	Toluene	0.38	ug/l	B	8020
GPA-S3A	GPA-S3A-MW1-GW2	Sodium	7950	ug/l	B	CLP
GPA-S3A	GPA-S3A-MW1-GW2	Aluminum, Dissolved	136	ug/l	()B	CLP
GPA-S3A	GPA-S3A-MW1-GW2	Sodium, Dissolved	8840	ug/l	B	CLP
GPA-S3A	GPA-S3A-MW1-GW2	Barium, Dissolved	198	ug/l	()B	CLP
GPA-S3A	GPA-S3A-MW1-GW2	Zinc	19.20	ug/l	()B	CLP
GPA-S3A	GPA-S3A-MW1-GW2	Calcium, Dissolved	72800	ug/l	B	CLP
GPA-S3A	GPA-S3A-MW1-GW2	Zinc, Dissolved	36.20	ug/l	B	CLP
GPA-S3A	GPA-S3A-MW1-GW2	Magnesium	25600	ug/l	B	CLP
GPA-S3A	GPA-S3A-MW1-GW2	Methylene chloride	0.33	ug/l	B	8010
GPA-S3A	GPA-S3A-MW1-GW2	Magnesium, Dissolved	27900	ug/l	B	CLP
GPA-S3A	GPA-S3A-MW1-GW2	Aluminum	313	ug/l	B	CLP
GPA-S3A	GPA-S3A-MW1-GW2	Barium	180	ug/l	()B	CLP
GPA-S3A	GPA-S3A-MW1-GW2	Iron	253	ug/l	B	CLP
GPA-S3A	GPA-S3A-MW1-GW2	Calcium	66600	ug/l	B	CLP
GPA-S3A	GPA-S3A-SB1-SS0-2	Sodium	199	mg/kg	()B	CLP
GPA-S3A	GPA-S3A-SB1-SS0-2	2-Propanone	17	ug/kg	B	8240
GPA-S3A	GPA-S3A-SB1-SS0-2	Chloroform	2	ug/kg	B	8240
GPA-S3A	GPA-S3A-SB1-SS0-2	Methylene chloride	40	ug/kg	B	8240
GPA-S3A	GPA-S3A-SB1-SS5-7	Sodium	244	mg/kg	()B	CLP

TABLE G-10 DATA POINTS QUALIFIED "B" AND "R"
ILANG, 182 Airlift Wing, GPRA, Peoria, Illinois

SITE	SAMPLE ID	ANALYTE	RESULT	UNITS	QUALIFIER	METHOD
GPA-S3A	GPA-S3A-SB1-SS5-7	2-Propanone	12	ug/kg	B	8240
GPA-S3A	GPA-S3A-SB1-SS5-7	Chloroform	2	ug/kg	B	8240
GPA-S3A	GPA-S3A-SB1-SS5-7	Methylene chloride	31	ug/kg	B	8240
GPA-S3A	GPA-S3A-SB2-SS03-04	Methylene chloride	11	ug/kg	B	8240
GPA-S3B	GPA-S3B-MW1-GW1	Aluminum, Dissolved	67.90	ug/l	(I)B	CLP
GPA-S3B	GPA-S3B-MW1-GW1	Total Petroleum Hydrocarbons	0.70	mg/l	B	TPH
GPA-S3B	GPA-S3B-MW1-GW1	Magnesium	40800	ug/l	B	CLP
GPA-S3B	GPA-S3B-MW1-GW1	Magnesium, Dissolved	46000	ug/l	B	CLP
GPA-S3B	GPA-S3B-MW1-GW1	Chloroform	0.72	ug/l	B	8010
GPA-S3B	GPA-S3B-MW1-GW1	Potassium	8090	ug/l	B	CLP
GPA-S3B	GPA-S3B-MW1-GW1	Calcium	101000	ug/l	B	CLP
GPA-S3B	GPA-S3B-MW1-GW1	Copper	8.90	ug/l	(I)B	CLP
GPA-S3B	GPA-S3B-MW1-GW1	Methylene chloride	0.49	ug/l	B	8010
GPA-S3B	GPA-S3B-MW1-GW1	Calcium, Dissolved	106000	ug/l	B	CLP
GPA-S3B	GPA-S3B-MW1-GW1	Zinc	46.60	ug/l	B	CLP
GPA-S3B	GPA-S3B-MW1-GW1	Potassium, Dissolved	4550	ug/l	(I)B	CLP
GPA-S3B	GPA-S3B-MW1-GW1	Sodium	21500	ug/l	B	CLP
GPA-S3B	GPA-S3B-MW1-GW1	Sodium, Dissolved	18800	ug/l	B	CLP
GPA-S3B	GPA-S3B-MW1-GW1	Barium, Dissolved	262	ug/l	B	CLP
GPA-S3B	GPA-S3B-MW1-GW1	Zinc, Dissolved	32	ug/l	B	CLP
GPA-S3B	GPA-S3B-MW1-GW2	Trichloroethylene	0.01	ug/l	B	8010
GPA-S3B	GPA-S3B-MW1-GW2	Magnesium	48800	ug/l	B	CLP
GPA-S3B	GPA-S3B-MW1-GW2	Magnesium, Dissolved	43100	ug/l	B	CLP
GPA-S3B	GPA-S3B-MW1-GW2	Toluene	0.90	ug/l	B	8020
GPA-S3B	GPA-S3B-MW1-GW2	Potassium	2680	ug/l	(I)B	CLP
GPA-S3B	GPA-S3B-MW1-GW2	Barium	223	ug/l	B	CLP
GPA-S3B	GPA-S3B-MW1-GW2	Calcium	109000	ug/l	B	CLP
GPA-S3B	GPA-S3B-MW1-GW2	Sodium	13700	ug/l	B	CLP
GPA-S3B	GPA-S3B-MW1-GW2	Aluminum, Dissolved	86.20	ug/l	(I)B	CLP
GPA-S3B	GPA-S3B-MW1-GW2	Barium, Dissolved	235	ug/l	B	CLP
GPA-S3B	GPA-S3B-MW1-GW2	Calcium, Dissolved	112000	ug/l	B	CLP
GPA-S3B	GPA-S3B-MW1-GW2	Potassium, Dissolved	4350	ug/l	(I)B	CLP
GPA-S3B	GPA-S3B-MW1-GW2	Sodium, Dissolved	15800	ug/l	B	CLP
GPA-S3B	GPA-S3B-MW1-GW2	Zinc	28.50	ug/l	B	CLP
GPA-S3B	GPA-S3B-SB1-SS0-2	2-Propanone	15	ug/kg	B	8240
GPA-S3B	GPA-S3B-SB1-SS0-2	Methylene chloride	24	ug/kg	B	8240
GPA-S3B	GPA-S3B-SB1-SS0-2	bis(2-Ethylhexyl)phthalate	120	ug/kg	B	8270
GPA-S3B	GPA-S3B-SB1-SS0-2	Sodium	217	mg/kg	(I)B	CLP
GPA-S3B	GPA-S3B-SB1-SS10-12	Sodium	241	mg/kg	(I)B	CLP
GPA-S3B	GPA-S3B-SB1-SS10-12	2-Propanone	16	ug/kg	B	8240
GPA-S3B	GPA-S3B-SB1-SS10-12	Chloroform	2	ug/kg	B	8240
GPA-S3B	GPA-S3B-SB1-SS10-12	Methylene chloride	29	ug/kg	B	8240
GPA-S3B	GPA-S3B-SB1-SS5-7	Methylene chloride	44	ug/kg	B	8240
GPA-S3B	GPA-S3B-SB1-SS5-7	bis(2-Ethylhexyl)phthalate	83	ug/kg	B	8270
GPA-S3B	GPA-S3B-SB1-SS5-7	Sodium	254	mg/kg	(I)B	CLP
GPA-S3B	GPA-S3B-SB1-SS5-7	2-Propanone	19	ug/kg	B	8240
GPA-S3B	GPA-S3B-SB2-SS0-2	2-Propanone	10	ug/kg	B	8240
GPA-S3B	GPA-S3B-SB2-SS0-2	Methylene chloride	29	ug/kg	B	8240
GPA-S3B	GPA-S3B-SB2-SS0-2	bis(2-Ethylhexyl)phthalate	200	ug/kg	B	8270
GPA-S3B	GPA-S3B-SB2-SS0-2	Sodium	175	mg/kg	(I)B	CLP
GPA-S3B	GPA-S3B-SB2-SS10-12	2-Propanone	23	ug/kg	B	8240
GPA-S3B	GPA-S3B-SB2-SS10-12	Methylene chloride	42	ug/kg	B	8240

TABLE G-10 DATA POINTS QUALIFIED "B" AND "R"
ILANG, 182 Airlift Wing, GPRA, Peoria, Illinois

SITE	SAMPLE ID	ANALYTE	RESULT	UNITS	QUALIFIER	METHOD
GPA-S3B	GPA-S3B-SB2-SS10-12	Sodium	272	mg/kg	()B	CLP
GPA-S3B	GPA-S3B-SB2-SS5-7	Methylene chloride	44	ug/kg	B	8240
GPA-S3B	GPA-S3B-SB2-SS5-7	Sodium	236	mg/kg	()B	CLP
GPA-S3B	GPA-S3B-SB3-SS0-2	2-Propanone	10	ug/kg	B	8240
GPA-S3B	GPA-S3B-SB3-SS0-2	Chloroform	2	ug/kg	B	8240
GPA-S3B	GPA-S3B-SB3-SS0-2	Methylene chloride	23	ug/kg	B	8240
GPA-S3B	GPA-S3B-SB3-SS0-2	Sodium	209	mg/kg	()B	CLP
GPA-S3B	GPA-S3B-SB3-SS4-6	2-Propanone	24	ug/kg	B	8240
GPA-S3B	GPA-S3B-SB3-SS4-6	Chloroform	1	ug/kg	B	8240
GPA-S3B	GPA-S3B-SB3-SS4-6	Methylene chloride	19	ug/kg	B	8240
GPA-S3B	GPA-S3B-SB3-SS4-6	bis(2-Ethylhexyl)phthalate	55	ug/kg	B	8270
GPA-S3B	GPA-S3B-SB3-SS4-6	Sodium	194	mg/kg	()B	CLP
GPA-S3B	GPA-S3B-SB3-SS8-10	2-Propanone	25	ug/kg	B	8240
GPA-S3B	GPA-S3B-SB3-SS8-10	Methylene chloride	22	ug/kg	B	8240
GPA-S3C	GPA-S3C-MW1-GW1	Chloroform	0.45	ug/l	B	8010
GPA-S3C	GPA-S3C-MW1-GW1	Calcium	68700	ug/l	B	CLP
GPA-S3C	GPA-S3C-MW1-GW1	Diethyl phthalate	1	ug/l	B	8270
GPA-S3C	GPA-S3C-MW1-GW1	Copper	7.30	ug/l	()B	CLP
GPA-S3C	GPA-S3C-MW1-GW1	Barium, Dissolved	213	ug/l	B	CLP
GPA-S3C	GPA-S3C-MW1-GW1	Methylene chloride	0.47	ug/l	B	8010
GPA-S3C	GPA-S3C-MW1-GW1	Calcium, Dissolved	76000	ug/l	B	CLP
GPA-S3C	GPA-S3C-MW1-GW1	Aluminum, Dissolved	141	ug/l	()B	CLP
GPA-S3C	GPA-S3C-MW1-GW1	Iron, Dissolved	26.70	ug/l	()B	CLP
GPA-S3C	GPA-S3C-MW1-GW1	Total Petroleum Hydrocarbons	0.50	mg/l	B	TPH
GPA-S3C	GPA-S3C-MW1-GW1	Magnesium, Dissolved	23100	ug/l	B	CLP
GPA-S3C	GPA-S3C-MW1-GW1	Potassium	8960	ug/l	B	CLP
GPA-S3C	GPA-S3C-MW1-GW1	Potassium, Dissolved	7960	ug/l	B	CLP
GPA-S3C	GPA-S3C-MW1-GW1	Sodium	11200	ug/l	B	CLP
GPA-S3C	GPA-S3C-MW1-GW1	Sodium, Dissolved	11700	ug/l	B	CLP
GPA-S3C	GPA-S3C-MW1-GW1	Zinc	39.30	ug/l	B	CLP
GPA-S3C	GPA-S3C-MW1-GW1	Zinc, Dissolved	5.30	ug/l	()B	CLP
GPA-S3C	GPA-S3C-MW1-GW1	Magnesium	22400	ug/l	B	CLP
GPA-S3C	GPA-S3C-MW1-GW2	Calcium, Dissolved	85500	ug/l	B	CLP
GPA-S3C	GPA-S3C-MW1-GW2	Potassium	3330	ug/l	()B	CLP
GPA-S3C	GPA-S3C-MW1-GW2	Calcium	233000	ug/l	B	CLP
GPA-S3C	GPA-S3C-MW1-GW2	Magnesium	118000	ug/l	B	CLP
GPA-S3C	GPA-S3C-MW1-GW2	Toluene	0.27	ug/l	B	8020
GPA-S3C	GPA-S3C-MW1-GW2	Iron, Dissolved	88.50	ug/l	()B	CLP
GPA-S3C	GPA-S3C-MW1-GW2	Copper	27.60	ug/l	B	CLP
GPA-S3C	GPA-S3C-MW1-GW2	Sodium, Dissolved	93500	ug/l	B	CLP
GPA-S3C	GPA-S3C-MW1-GW2	Chloroform	0.01	ug/l	B	8010
GPA-S3C	GPA-S3C-MW1-GW2	Magnesium, Dissolved	38900	ug/l	B	CLP
GPA-S3C	GPA-S3C-MW1-GW2	Potassium, Dissolved	2730	ug/l	()B	CLP
GPA-S3C	GPA-S3C-MW1-GW2	Sodium	80600	ug/l	B	CLP
GPA-S3C	GPA-S3C-MW1-GW2	Zinc, Dissolved	8.20	ug/l	()B	CLP
GPA-S3C	GPA-S3C-MW1-GW2	Trichloroethylene	8	ug/l	B	8010
GPA-S3C	GPA-S3C-MW1-GW2	Zinc	72.60	ug/l	B	CLP
GPA-S3C	GPA-S3C-MW1-GW2	Aluminum, Dissolved	154	ug/l	()B	CLP
GPA-S3C	GPA-S3C-MW1-GW2	Barium, Dissolved	187	ug/l	()B	CLP
GPA-S3C	GPA-S3C-SB1-SS02-04	2-Propanone	9	ug/kg	B	8240
GPA-S3C	GPA-S3C-SB1-SS02-04	Methylene chloride	11	ug/kg	B	8240
GPA-S3C	GPA-S3C-SB1-SS04-06	2-Propanone	12	ug/kg	B	8240

TABLE G-10 DATA POINTS QUALIFIED "B" AND "R"
ILANG, 182 Airlift Wing, GPRA, Peoria, Illinois

SITE	SAMPLE ID	ANALYTE	RESULT	UNITS	QUALIFIER	METHOD
GPA-S3C	GPA-S3C-SB1-SS04-06	Chloroform	2	ug/kg	B	8240
GPA-S3C	GPA-S3C-SB1-SS04-06	Methylene chloride	13	ug/kg	B	8240
GPA-S3C	GPA-S3C-SB1-SS08-10	2-Propanone	20	ug/kg	B	8240
GPA-S3C	GPA-S3C-SB1-SS08-10	Chloroform	2	ug/kg	B	8240
GPA-S3C	GPA-S3C-SB1-SS08-10	Methylene chloride	13	ug/kg	B	8240
GPA-S3C	GPA-S3C-SB2-SS02-04	2-Propanone	9	ug/kg	B	8240
GPA-S3C	GPA-S3C-SB2-SS02-04	Chloroform	2	ug/kg	B	8240
GPA-S3C	GPA-S3C-SB2-SS02-04	Methylene chloride	11	ug/kg	B	8240
GPA-S3C	GPA-S3C-SB2-SS04-06	Cobalt	10	mg/kg	B	CLP
GPA-S3C	GPA-S3C-SB2-SS04-06	Methylene chloride	14	ug/kg	B	8240
GPA-S3C	GPA-S3C-SB2-SS04-06	2-Propanone	13	ug/kg	B	8240
GPA-S3C	GPA-S3C-SB2-SS04-06	Chloroform	2	ug/kg	B	8240
GPA-S3C	GPA-S3C-SB3-SS02-04	2-Propanone	2	ug/kg	B	8240
GPA-S3C	GPA-S3C-SB3-SS02-04	Methylene chloride	8	ug/kg	B	8240
GPA-S3C	GPA-S3C-SB3-SS04-06	Methylene chloride	11	ug/kg	B	8240
GPA-S3C	GPA-S3C-SB3-SS04-06	Chloroform	1	ug/kg	B	8240
GPA-S3C	GPA-S3C-SB4-SS02-04	Methylene chloride	12	ug/kg	B	8240
GPA-S3C	GPA-S3C-SB4-SS02-04	2-Propanone	8	ug/kg	B	8240
GPA-S3C	GPA-S3C-SB4-SS06-08	Methylene chloride	13	ug/kg	B	8240
GPA-S3C	GPA-S3C-SB4-SS06-08	2-Propanone	21	ug/kg	B	8240
GPA-SBG	GPA-SBG-MW1-GW1	Copper	32.10	ug/l	B	CLP
GPA-SBG	GPA-SBG-MW1-GW1	Chloroform	1.20	ug/l	B	8010
GPA-SBG	GPA-SBG-MW1-GW1	Calcium, Dissolved	239000	ug/l	B	CLP
GPA-SBG	GPA-SBG-MW1-GW1	Aluminum, Dissolved	212	ug/l	B	CLP
GPA-SBG	GPA-SBG-MW1-GW1	Magnesium	173000	ug/l	B	CLP
GPA-SBG	GPA-SBG-MW1-GW1	Arsenic	5.30	ug/l	()B	CLP
GPA-SBG	GPA-SBG-MW1-GW1	Barium	245	ug/l	B	CLP
GPA-SBG	GPA-SBG-MW1-GW1	Calcium	290000	ug/l	B	CLP
GPA-SBG	GPA-SBG-MW1-GW1	Zinc, Dissolved	15.30	ug/l	()B	CLP
GPA-SBG	GPA-SBG-MW1-GW1	Beryllium	1.40	ug/l	()B	CLP
GPA-SBG	GPA-SBG-MW1-GW1	Sodium	54400	ug/l	B	CLP
GPA-SBG	GPA-SBG-MW1-GW1	Zinc	89.60	ug/l	B	CLP
GPA-SBG	GPA-SBG-MW1-GW1	Methylene chloride	0.66	ug/l	B	8010
GPA-SBG	GPA-SBG-MW1-GW1	Barium, Dissolved	125	ug/l	()B	CLP
GPA-SBG	GPA-SBG-MW1-GW1	Butyl benzyl phthalate	3	ug/l	B	8270
GPA-SBG	GPA-SBG-MW1-GW2	Sodium, Dissolved	78700	ug/l	B	CLP
GPA-SBG	GPA-SBG-MW1-GW2	Calcium, Dissolved	228000	ug/l	B	CLP
GPA-SBG	GPA-SBG-MW1-GW2	Magnesium, Dissolved	137000	ug/l	B	CLP
GPA-SBG	GPA-SBG-MW1-GW2	Zinc	159	ug/l	B	CLP
GPA-SBG	GPA-SBG-MW1-GW2	Calcium	293000	ug/l	B	CLP
GPA-SBG	GPA-SBG-MW1-GW2	Copper	7.60	ug/l	()B	CLP
GPA-SBG	GPA-SBG-MW1-GW2	Barium, Dissolved	98.20	ug/l	()B	CLP
GPA-SBG	GPA-SBG-MW1-GW2	Trichloroethylene	1.40	ug/l	B	8010
GPA-SBG	GPA-SBG-MW1-GW2	Lead	2.70	ug/l	()B	CLP
GPA-SBG	GPA-SBG-MW1-GW2	Zinc, Dissolved	42.20	ug/l	B	CLP
GPA-SBG	GPA-SBG-MW1-GW2	Aluminum, Dissolved	103	ug/l	()B	CLP
GPA-SBG	GPA-SBG-MW1-GW2	Sodium	77200	ug/l	B	CLP
GPA-SBG	GPA-SBG-MW1-GW2	Barium	124	ug/l	()B	CLP
GPA-SBG	GPA-SBG-MW1-GW2	Toluene	0.72	ug/l	B	8020
GPA-SBG	GPA-SBG-MW2-GW1	Potassium, Dissolved	4510	ug/l	()B	CLP
GPA-SBG	GPA-SBG-MW2-GW1	Aluminum, Dissolved	58.10	ug/l	()B	CLP
GPA-SBG	GPA-SBG-MW2-GW1	Methylene chloride	0.23	ug/l	B	8010

TABLE G-10 DATA POINTS QUALIFIED "B" AND "R"
ILANG, 182 Airlift Wing, GPRA, Peoria, Illinois

SITE	SAMPLE ID	ANALYTE	RESULT	UNITS	QUALIFIER	METHOD
GPA-SBG	GPA-SBG-MW2-GW1	Potassium	11600	ug/l	B	CLP
GPA-SBG	GPA-SBG-MW2-GW1	Calcium	260000	ug/l	B	CLP
GPA-SBG	GPA-SBG-MW2-GW1	Toluene	0.32	ug/l	B	8020
GPA-SBG	GPA-SBG-MW2-GW1	Barium, Dissolved	225	ug/l	B	CLP
GPA-SBG	GPA-SBG-MW2-GW1	Magnesium	121000	ug/l	B	CLP
GPA-SBG	GPA-SBG-MW2-GW1	Magnesium, Dissolved	57800	ug/l	B	CLP
GPA-SBG	GPA-SBG-MW2-GW1	Sodium	23000	ug/l	B	CLP
GPA-SBG	GPA-SBG-MW2-GW1	Zinc	123	ug/l	B	CLP
GPA-SBG	GPA-SBG-MW2-GW1	Sodium, Dissolved	22600	ug/l	B	CLP
GPA-SBG	GPA-SBG-MW2-GW1	Copper	36.50	ug/l	B	CLP
GPA-SBG	GPA-SBG-MW2-GW1	Total Petroleum Hydrocarbons	0.80	mg/l	B	TPH
GPA-SBG	GPA-SBG-MW2-GW1	Calcium, Dissolved	155000	ug/l	B	CLP
GPA-SBG	GPA-SBG-MW2-GW2	Zinc	44.90	ug/l	B	CLP
GPA-SBG	GPA-SBG-MW2-GW2	Lead	3.20	ug/l	B	CLP
GPA-SBG	GPA-SBG-MW2-GW2	Potassium	1610	ug/l	()B	CLP
GPA-SBG	GPA-SBG-MW2-GW2	Potassium, Dissolved	1570	ug/l	()B	CLP
GPA-SBG	GPA-SBG-MW2-GW2	Sodium	30800	ug/l	B	CLP
GPA-SBG	GPA-SBG-MW2-GW2	Calcium, Dissolved	158000	ug/l	B	CLP
GPA-SBG	GPA-SBG-MW2-GW2	Barium	184	ug/l	()B	CLP
GPA-SBG	GPA-SBG-MW2-GW2	Barium, Dissolved	178	ug/l	()B	CLP
GPA-SBG	GPA-SBG-MW2-GW2	Methylene chloride	0.19	ug/l	B	8010
GPA-SBG	GPA-SBG-MW2-GW2	Magnesium	99400	ug/l	B	CLP
GPA-SBG	GPA-SBG-MW2-GW2	Sodium, Dissolved	33500	ug/l	B	CLP
GPA-SBG	GPA-SBG-MW2-GW2	Copper	8.10	ug/l	()B	CLP
GPA-SBG	GPA-SBG-MW2-GW2	Toluene	0.83	ug/l	B	8020
GPA-SBG	GPA-SBG-MW2-GW2	Zinc, Dissolved	32.90	ug/l	B	CLP
GPA-SBG	GPA-SBG-MW2-GW2	Calcium	220000	ug/l	B	CLP
GPA-SBG	GPA-SBG-MW2-GW2	Magnesium, Dissolved	65200	ug/l	B	CLP
GPA-SBG	GPA-SBG-MW2-SS02-04	2-Propanone	28	ug/kg	B	8240
GPA-SBG	GPA-SBG-MW2-SS02-04	Methylene chloride	83	ug/kg	B	8240
GPA-SBG	GPA-SBG-MW2-SS04-06	Methylene chloride	52	ug/kg	B	8240
GPA-SBG	GPA-SBG-MW2-SS04-06	2-Propanone	45	ug/kg	B	8240
GPA-SBG	GPA-SBG-MW3-GW2	Potassium, Dissolved	1430	ug/l	()B	CLP
GPA-SBG	GPA-SBG-MW3-GW2	Sodium	31800	ug/l	B	CLP
GPA-SBG	GPA-SBG-MW3-GW2	Aluminum, Dissolved	98.90	ug/l	()B	CLP
GPA-SBG	GPA-SBG-MW3-GW2	Barium, Dissolved	155	ug/l	()B	CLP
GPA-SBG	GPA-SBG-MW3-GW2	Toluene	0.29	ug/l	B	8020
GPA-SBG	GPA-SBG-MW3-GW2	Zinc	72	ug/l	B	CLP
GPA-SBG	GPA-SBG-MW3-GW2	Sodium, Dissolved	32300	ug/l	B	CLP
GPA-SBG	GPA-SBG-MW3-GW2	Lead	12.30	ug/l	B	CLP
GPA-SBG	GPA-SBG-MW3-GW2	Calcium	310000	ug/l	B	CLP
GPA-SBG	GPA-SBG-MW3-GW2	Calcium, Dissolved	154000	ug/l	B	CLP
GPA-SBG	GPA-SBG-MW3-GW2	Potassium	2010	ug/l	()B	CLP
GPA-SBG	GPA-SBG-MW3-GW2	Zinc, Dissolved	6.60	ug/l	()B	CLP
GPA-SBG	GPA-SBG-MW3-GW2	Methylene chloride	0.36	ug/l	B	8010
GPA-SBG	GPA-SBG-MW3-GW2	Copper	16.80	ug/l	()B	CLP
GPA-SBG	GPA-SBG-MW3-GW2	Magnesium, Dissolved	61900	ug/l	B	CLP
GPA-SBG	GPA-SBG-MW4-GW1	Magnesium, Dissolved	27700	ug/l	B	CLP
GPA-S3C	GPA-SBG-MW4-GW1	Potassium	8500	ug/l	B	CLP
GPA-S3C	GPA-SBG-MW4-GW1	Total Petroleum Hydrocarbons	0.70	mg/l	B	TPH
GPA-S3C	GPA-SBG-MW4-GW1	Calcium	84400	ug/l	B	CLP
GPA-S3C	GPA-SBG-MW4-GW1	Barium, Dissolved	222	ug/l	B	CLP

TABLE G-10 DATA POINTS QUALIFIED "B" AND "R"
ILANG, 182 Airlift Wing, GPRA, Peoria, Illinois

SITE	SAMPLE ID	ANALYTE	RESULT	UNITS	QUALIFIER	METHOD
GPA-S3C	GPA-SBG-MW4-GW1	Copper	7.50	ug/l	()B	CLP
GPA-S3C	GPA-SBG-MW4-GW1	Sodium, Dissolved	11800	ug/l	B	CLP
GPA-S3C	GPA-SBG-MW4-GW1	Diethyl phthalate	1	ug/l	B	8270
GPA-S3C	GPA-SBG-MW4-GW1	Sodium	12000	ug/l	B	CLP
GPA-S3C	GPA-SBG-MW4-GW1	Calcium, Dissolved	81400	ug/l	B	CLP
GPA-S3C	GPA-SBG-MW4-GW1	Iron, Dissolved	13.30	ug/l	()B	CLP
GPA-S3C	GPA-SBG-MW4-GW1	Chloroform	0.30	ug/l	B	8010
GPA-S3C	GPA-SBG-MW4-GW1	Zinc	32.10	ug/l	B	CLP
GPA-S3C	GPA-SBG-MW4-GW1	Zinc, Dissolved	12.70	ug/l	()B	CLP
GPA-S3C	GPA-SBG-MW4-GW1	Potassium, Dissolved	6600	ug/l	B	CLP
GPA-S3C	GPA-SBG-MW4-GW1	Magnesium	31100	ug/l	B	CLP
GPA-S3C	GPA-SBG-MW4-GW1	Aluminum, Dissolved	95.30	ug/l	()B	CLP
GPA-S3C	GPA-SBG-MW4-GW1	Methylene chloride	0.33	ug/l	B	8010
GPA-SBG	GPA-SBG-SB1-SS0-2	2-Propanone	16	ug/kg	B	8240
GPA-SBG	GPA-SBG-SB1-SS0-2	Methylene chloride	33	ug/kg	B	8240
GPA-SBG	GPA-SBG-SB1-SS2-4	2-Propanone	16	ug/kg	B	8240
GPA-SBG	GPA-SBG-SB1-SS2-4	Chloroform	1	ug/kg	B	8240
GPA-SBG	GPA-SBG-SB1-SS2-4	Methylene chloride	21	ug/kg	B	8240
GPA-SBG	GPA-SBG-SB1-SS4-6	2-Propanone	18	ug/kg	B	8240
GPA-SBG	GPA-SBG-SB1-SS4-6	Chloroform	2	ug/kg	B	8240
GPA-SBG	GPA-SBG-SB1-SS4-6	Methylene chloride	53	ug/kg	B	8240
GPA-SBG	GPA-SBG-SB1-SS6-8	2-Propanone	20	ug/kg	B	8240
GPA-SBG	GPA-SBG-SB1-SS6-8	Methylene chloride	36	ug/kg	B	8240
GPA-SBG	GPA-SBG-SB1-SS8-10	2-Propanone	43	ug/kg	B	8240
GPA-SBG	GPA-SBG-SB1-SS8-10	Methylene chloride	30	ug/kg	B	8240
GPA-SBG	GPA-SBG-SS1-0-1	2-Propanone	34	ug/kg	B	8240
GPA-SBG	GPA-SBG-SS1-0-1	Methylene chloride	23	ug/kg	B	8240
GPA-SBG	GPA-SBG-SS2-0-1	2-Propanone	27	ug/kg	B	8240
GPA-SBG	GPA-SBG-SS2-0-1	Chloroform	1	ug/kg	B	8240
GPA-SBG	GPA-SBG-SS2-0-1	Methylene chloride	45	ug/kg	B	8240
GPA-SBG	GPA-SBG-SS2-0-1	Sodium	113	mg/kg	()B	CLP
GPA-SBG	GPA-SBG-SS3-0-1	2-Propanone	20	ug/kg	B	8240
GPA-SBG	GPA-SBG-SS3-0-1	Methylene chloride	22	ug/kg	B	8240
GPA-S1	GPA-S1-MW1-GW2	Benzoic Acid	100	ug/l	R	8270
GPA-SBG	GPA-SBG-MW1-GW1	1,2-Dichlorobenzene	10	ug/l	R	8270
GPA-SBG	GPA-SBG-MW1-GW1	2,4,5-Trichlorophenol	20	ug/l	R	8270
GPA-SBG	GPA-SBG-MW1-GW1	2,4,6-Trichlorophenol	20	ug/l	R	8270
GPA-SBG	GPA-SBG-MW1-GW1	2,4-Dinitrophenol	40	ug/l	R	8270
GPA-SBG	GPA-SBG-MW1-GW1	2-Methyl-4,6-Dinitrophenol	30	ug/l	R	8270
GPA-SBG	GPA-SBG-MW1-GW1	2-Methylphenol	10	ug/l	R	8270
GPA-SBG	GPA-SBG-MW1-GW1	Pentachlorophenol	20	ug/l	R	8270
GPA-SBG	GPA-SBG-MW1-GW1	4-Nitrophenol	10	ug/l	R	8270
GPA-SBG	GPA-SBG-MW1-GW1	Phenol	10	ug/l	R	8270
GPA-SBG	GPA-SBG-MW1-GW1	Pyrene	10	ug/l	R	8270
GPA-SBG	GPA-SBG-MW1-GW1	4-Methylphenol	10	ug/l	R	8270
GPA-SBG	GPA-SBG-MW1-GW2	2-Methylphenol	10	ug/l	R	8270
GPA-SBG	GPA-SBG-MW1-GW2	Phenol	10	ug/l	R	8270
GPA-SBG	GPA-SBG-MW1-GW2	2-Methyl-4,6-Dinitrophenol	30	ug/l	R	8270
GPA-SBG	GPA-SBG-MW1-GW2	Benzoic Acid	100	ug/l	R	8270
GPA-SBG	GPA-SBG-MW1-GW2	2-Chlorophenol	10	ug/l	R	8270
GPA-SBG	GPA-SBG-MW1-GW2	4-Methylphenol	10	ug/l	R	8270
GPA-SBG	GPA-SBG-MW1-GW2	2-Nitrophenol	10	ug/l	R	8270

TABLE G-10 DATA POINTS QUALIFIED "B" AND "R"
ILANG, 182 Airlift Wing, GPRA, Peoria, Illinois

SITE	SAMPLE ID	ANALYTE	RESULT	UNITS	QUALIFIER	METHOD
GPA-SBG	GPA-SBG-MW1-GW2	Pentachlorophenol	20	ug/l	R	8270
GPA-SBG	GPA-SBG-MW1-GW2	4-Nitrophenol	10	ug/l	R	8270
GPA-SBG	GPA-SBG-MW1-GW2	4-Chloro-3-methyl phenol	10	ug/l	R	8270
GPA-SBG	GPA-SBG-MW1-GW2	2,4-Dinitrophenol	40	ug/l	R	8270
GPA-SBG	GPA-SBG-MW1-GW2	2,4-Dimethylphenol	10	ug/l	R	8270
GPA-SBG	GPA-SBG-MW1-GW2	2,4-Dichlorophenol	10	ug/l	R	8270
GPA-SBG	GPA-SBG-MW1-GW2	2,4,6-Trichlorophenol	20	ug/l	R	8270
GPA-SBG	GPA-SBG-MW1-GW2	2,4,5-Trichlorophenol	20	ug/l	R	8270

TABLE G-11 FIELD QC CROSS REFERENCE
ILANG, 182 Airlift Wing, GPRA, Peoria, Illinois

SAMPLE ID	MATRIX	SAMPLE DATE	QC SAMPLES
GPA-S1-MW1-GW1	WATER	01/20/93	TB23,FB3, FB4,EB4
GPA-S1-MW1-GW2	WATER	04/17/93	TB30,FB10, FB11,EB10
GPA-S1-MW1-SS04-05	SUBSOIL	01/17/93	TB17,FB3, FB4,EB3A
GPA-S1-MW1-SS08-09	SUBSOIL	01/17/93	TB17,FB3, FB4,EB3A
GPA-S1-SB1-SS2-4	SUBSOIL	12/10/92	TB7,FB1, FB2,EB2
GPA-S1-SB1-SS4-6	SUBSOIL	12/10/92	TB7,FB1, FB2,EB2
GPA-S1-SB1-SS10-12	SUBSOIL	12/10/92	TB7,FB1, FB2,EB2
GPA-S1-SB1-SS6-8	SUBSOIL	12/10/92	TB7,FB1, FB2,EB2
GPA-S1-SB2-SS0-2	SUBSOIL	12/10/92	TB7,FB1, FB2,EB2
GPA-S1-SB2-SS2-4	SUBSOIL	12/10/92	TB7,FB1, FB2,EB2
GPA-S1-SB2-SS4-6	SUBSOIL	12/10/92	TB7,FB1, FB2,EB2
GPA-S1-SB3-SS10-12	SUBSOIL	12/10/92	TB8,FB1, FB2,EB2
GPA-S1-SB3-SS2-4	SUBSOIL	12/10/92	TB8,FB1, FB2,EB2
GPA-S1-SB3-SS4-6	SUBSOIL	12/10/92	TB8,FB1, FB2,EB2
GPA-S1-SB3-SS6-8	SUBSOIL	12/10/92	TB8,FB1, FB2,EB2
GPA-S1-SB3-SS8-10	SUBSOIL	12/10/92	TB8,FB1, FB2,EB2
GPA-S1-SB4-SS0-2	SUBSOIL	12/12/92	TB9,FB1, FB2,EB3
GPA-S1-SB4-SS2-4	SUBSOIL	12/12/92	TB9,FB1, FB2,EB3
GPA-S1-SB5-SS12-14	SUBSOIL	12/12/92	TB9,FB1, FB2,EB3
GPA-S1-SB4-SS4-6	SUBSOIL	12/12/92	TB9,FB1, FB2,EB3
GPA-S1-SB4-SS6-8	SUBSOIL	12/12/92	TB9,FB1, FB2,EB3
GPA-S1-SB5-SS0-2	SUBSOIL	12/12/92	TB9,FB1, FB2,EB3
GPA-S1-SB5-SS2-4	SUBSOIL	12/12/92	TB9,FB1, FB2,EB3
GPA-S1-SB5-SS4-6	SUBSOIL	12/12/92	TB9,FB1, FB2,EB3
GPA-S1-SB5-SS6-8	SUBSOIL	12/12/92	TB9,FB1, FB2,EB3
GPA-S1-SB5-SS8-10	SUBSOIL	12/12/92	TB9,FB1, FB2,EB3
GPA-S2-SB1-SS0-2	SOIL	12/08/92	TB4,FB1, FB2,EB1
GPA-S2-SB1-SS5-7	SUBSOIL	12/08/92	TB4,FB1, FB2,EB1
GPA-S2-SB2-SS0-2	SOIL	12/08/92	TB4,FB1, FB2,EB1
GPA-S2-SB2-SS4-6	SUBSOIL	12/08/92	TB4,FB1, FB2,EB1
GPA-S2-SB3-SS0-2	SOIL	12/08/92	TB4,FB1, FB2,EB1
GPA-S2-SB3-SS5-7	SUBSOIL	12/08/94	TB4,FB1, FB2,EB1
GPA-S3A-MW1-GW1	WATER	01/21/93	TB25,FB3, FB4,EB4
GPA-S3A-MW1-GW2	WATER	04/18/93	TB31,FB10, FB11,EB10
GPA-S3A-SB1-SS0-2	SUBSOIL	12/09/92	TB5,FB1, FB2,EB1
GPA-S3A-SB1-SS5-7	SUBSOIL	12/09/92	TB5,FB1, FB2,EB1
GPA-S3A-SB2-SS03-04	SUBSOIL	01/16/93	TB16,FB3, FB4,EB3A
GPA-S3B-MW1-GW1	WATER	01/20/93	TB19,FB3, FB4,EB4
GPA-S3B-MW1-GW2	WATER	04/18/93	TB31,FB10, FB11,EB10
GPA-S3B-SB1-SS0-2	SOIL	12/08/92	TB4,FB1, FB2,EB1
GPA-S3B-SB1-SS5-7	SUBSOIL	12/08/92	TB4,FB1, FB2,EB1
GPA-S3B-SB1-SS10-12	SUBSOIL	12/08/92	TB5,FB1, FB2,EB1
GPA-S3B-SB2-SS0-2	SOIL	12/08/92	TB4,FB1, FB2,EB1
GPA-S3B-SB2-SS10-12	SUBSOIL	12/08/92	TB4,FB1, FB2,EB1
GPA-S3B-SB2-SS5-7	SUBSOIL	12/08/94	TB4,FB1, FB2,EB1
GPA-S3B-SB3-SS0-2	SOIL	12/10/92	TB7,FB1, FB2,EB2
GPA-S3B-SB3-SS4-6	SUBSOIL	12/10/92	TB7,FB1, FB2,EB2
GPA-S3B-SB3-SS8-10	SUBSOIL	12/10/92	TB7,FB1, FB2,EB2
GPA-S3C-MW1-GW1	WATER	01/20/93	TB18,FB3, FB4,EB4
GPA-S3C-MW1-GW2	WATER	04/18/93	TB31,FB10, FB11,EB10
GPA-SBG-MW4-GW1	WATER	01/20/93	TB22,FB3, FB4,EB4

TABLE G-11 FIELD QC CROSS REFERENCE
ILANG, 182 Airlift Wing, GPRA, Peoria, Illinois

SAMPLE ID	MATRIX	SAMPLE DATE	QC SAMPLES
GPA-S3C-SB1-SS02-04	SUBSOIL	01/15/93	TB14,FB3, FB4,EB3A
GPA-S3C-SB1-SS04-06	SUBSOIL	01/15/93	TB14,FB3, FB4,EB3A
GPA-S3C-SB1-SS08-10	SUBSOIL	01/15/93	TB14,FB3, FB4,EB3A
GPA-S3C-SB2-SS02-04	SUBSOIL	01/15/94	TB14,FB3, FB4,EB3A
GPA-S3C-SB2-SS04-06	SUBSOIL	01/15/94	TB14,FB3, FB4,EB3A
GPA-S3C-SB3-SS02-04	SUBSOIL	01/15/94	TB14,FB3, FB4,EB3A
GPA-S3C-SB3-SS04-06	SUBSOIL	01/15/94	TB14,FB3, FB4,EB3A
GPA-S3C-SB4-SS02-04	SUBSOIL	01/16/94	TB16,FB3, FB4,EB3A
GPA-S3C-SB4-SS06-08	SUBSOIL	01/16/94	TB16,FB3, FB4,EB3A
GPA-SBG-MW1-GW1	WATER	01/20/94	TB21,FB3, FB4,EB4
GPA-SBG-MW1-GW2	WATER	04/17/93	TB30,FB10, FB11,EB10
GPA-SBG-MW2-GW1	WATER	01/20/93	TB20,FB3, FB4,EB4
GPA-SBG-MW2-GW2	WATER	04/18/93	TB31,FB10, FB11,EB10
GPA-SBG-MW3-GW2	WATER	04/18/93	TB31,FB10, FB11,EB10
GPA-SBG-MW2-SS02-04	SUBSOIL	01/19/93	
GPA-SBG-MW2-SS04-06	SUBSOIL	01/19/93	
GPA-SBG-SB1-SS0-2	SUBSOIL	12/10/92	TB11,FB1, FB2,EB3
GPA-SBG-SB1-SS2-4	SUBSOIL	12/10/92	TB11,FB1, FB2,EB3
GPA-SBG-SB1-SS4-6	SUBSOIL	12/10/92	TB11,FB1, FB2,EB3
GPA-SBG-SB1-SS6-8	SUBSOIL	12/10/92	TB11,FB1,FB2,EB3
GPA-SBG-SB1-SS8-10	SUBSOIL	12/10/92	TB11,FB1, FB2,EB3
GPA-SBG-SS1-O-1	SOIL	04/18/93	TB31,FB10, FB11,EB11
GPA-SBG-SS2-O-1	SOIL	04/18/93	TB31,FB10, FB11,EB11
GPA-SBG-SS2-O-2	SOIL	04/18/93	TB31,FB10, FB11,EB11
GPA-SBG-SS3-O-1	SOIL	04/18/93	TB31,FB10, FB11,EB11

TABLE G-12 ANALYTES DETECTED IN EQUIPMENT RINSEATES
ILANG, 182 Airlift Wing, GPRA, Peoria, Illinois

SITE	SAMPLE ID	ANALYTE	RESULT	UNITS	QUALIFIER	METHOD
GPAQC	P-EB1	Chloroform	0.54	ug/l		8010
GPAQC	P-EB1	Methylene chloride	1.10	ug/l		8010
GPAQC	P-EB1	Toluene	0.37	ug/l		8020
GPAQC	P-EB1	Calcium	302	ug/l	()	CLP
GPAQC	P-EB1	Magnesium	192	ug/l		CLP
GPAQC	P-EB1	Di-n-butyl phthalate	1	ug/l		CLP 3/90
GPAQC	P-EB1	bis(2-Ethylhexyl)phthalate	1	ug/l		CLP 3/90
GPAQC	P-EB2	Calcium	83.20	ug/l	()	CLP
GPAQC	P-EB3	Chloroform	0.32	ug/l		8010
GPAQC	P-EB3	Methylene chloride	0.99	ug/l		8010
GPAQC	P-EB3	Calcium	88.70	ug/l	()	CLP
GPAQC	P-EB3	bis(2-Ethylhexyl)phthalate	9	ug/l		CLP 3/90
GPAQC	P-EB3	Total Petroleum Hydrocarbons	0.40	mg/l		TPH
GPAQC	P-EB3A	Barium	2.50	ug/l	()	CLP
GPAQC	P-EB3A	Calcium	139	ug/l	()	CLP
GPAQC	P-EB3A	Copper	12.90	ug/l	()	CLP
GPAQC	P-EB3A	Iron	190	ug/l	K	CLP
GPAQC	P-EB3A	Manganese	2.70	ug/l	()L	CLP
GPAQC	P-EB3A	Zinc	9	ug/l	()	CLP
GPAQC	P-EB4	1,1,2,2-Tetrachloroethane	0.04	ug/l		8010
GPAQC	P-EB4	Bromoform	0.04	ug/l		8010
GPAQC	P-EB4	Chloroform	0.34	ug/l		8010
GPAQC	P-EB4	Methylene chloride	0.66	ug/l		8010
GPAQC	P-EB4	Aluminum	60.80	ug/l	()	CLP
GPAQC	P-EB4	Calcium	41.80	ug/l	()	CLP
GPAQC	P-EB4	Sodium	402	ug/l	()	CLP
GPAQC	P-EB4	Total Petroleum Hydrocarbons	0.30	mg/l		TPH
GPAQC	P-EB4	Total Petroleum Hydrocarbons	0.30	mg/l		TPH
GPAQC	P-ER10	Chloroform	0.33	ug/l		8010
GPAQC	P-ER10	Methyl chloride	0.39	ug/l		8010
GPAQC	P-ER10	Trichloroethylene	0.23	ug/l	J	8010
GPAQC	P-ER10	Iron	133	ug/l	J	CLP
GPAQC	P-ER10	Zinc	34.50	ug/l		CLP
GPAQC	P-ER10	Di-n-butyl phthalate	2	ug/l		CLP 3/90

G.2.2 Field Blanks

Six field blanks were collected to provide baseline analytical data for the water used for equipment decontamination. Field blanks were taken for the American Society for Testing and Materials (ASTM) Type II water and the potable water used in the steam cleaner and as decontamination water. Field blanks were collected by randomly selecting sample containers from the supply, filling them with water from the sample source, and then preserving as appropriate for the required analysis. The blanks were analyzed in the same manner as the associated environmental samples. Low levels of bromoform, bromodichloromethane, chloroform, dibromochloromethane, 1,2-dichlorobenzene, di-n-butyl phthalate, methylene chloride, toluene, arsenic, barium, calcium, copper, lead, magnesium, manganese, sodium, zinc, and TPH were detected in selected field blanks obtained during the SI. The brominated compounds are attributed to the potable water source. TPH was detected in one field blank at low concentrations. The low levels detected in the field blanks are considered not to have contributed to any levels seen in the associated environmental samples. Table G-13 summarizes the concentrations of elements detected in the field blanks collected at GPRA. The ILANG, GPRA SI was conducted in two sampling events and separate field blanks were obtained for each sampling event.

G.2.3 Equipment Rinseates

Seven equipment rinseates were prepared from rinseates of equipment used to obtain environmental samples. The equipment rinseates were prepared by pouring ASTM Type II water through or over sampling equipment which had been decontaminated. The equipment rinseates were preserved as appropriate for the required analysis and analyzed using the same methods as the associated environmental samples. Equipment rinseates collected during the SI indicated low levels of chloroform, bromoform, methylene chloride, toluene,

TABLE G-13 ANALYTES DETECTED IN FIELD BLANKS
ILANG, 182 Airlift Wing, GPRA, Peoria, Illinois

SITE	SAMPLE ID	ANALYTE	RESULT	UNITS	QUALIFIER	METHOD
GPAQC	P-FB1	Bromoform	5.30	ug/l		8010
GPAQC	P-FB1	Chloroform	5.50	ug/l		8010
GPAQC	P-FB1	Dibromochloromethane	4	ug/l		8010
GPAQC	P-FB1	Methylene chloride	1.70	ug/l		8010
GPAQC	P-FB1	Toluene	0.42	ug/l		8020
GPAQC	P-FB1	Arsenic	9.40	ug/l	()	CLP
GPAQC	P-FB1	Barium	26.30	ug/l	()	CLP
GPAQC	P-FB1	Calcium	51400	ug/l		CLP
GPAQC	P-FB1	Copper	241	ug/l		CLP
GPAQC	P-FB1	Lead	6	ug/l		CLP
GPAQC	P-FB1	Magnesium	32000	ug/l		CLP
GPAQC	P-FB1	Potassium	23800	ug/l		CLP
GPAQC	P-FB1	Sodium	159000	ug/l		CLP
GPAQC	P-FB1	Zinc	167	ug/l		CLP
GPAQC	P-FB2	Methylene chloride	1.80	ug/l		8010
GPAQC	P-FB2	1,2-Dichlorobenzene	0.58	ug/l		8020
GPAQC	P-FB2	Toluene	0.45	ug/l		8020
GPAQC	P-FB2	Calcium	72.10	ug/l	()	CLP
GPAQC	P-FB2	Di-n-butyl phthalate	2	ug/l		CLP 3/90
GPAQC	P-FB3	Bromoform	0.68	ug/l		8010
GPAQC	P-FB3	Chloroform	0.62	ug/l		8010
GPAQC	P-FB3	Dibromochloromethane	1.30	ug/l		8010
GPAQC	P-FB3	Barium	55.10	ug/l	()	CLP
GPAQC	P-FB3	Calcium	100000	ug/l		CLP
GPAQC	P-FB3	Copper	155	ug/l		CLP
GPAQC	P-FB3	Magnesium	67400	ug/l		CLP
GPAQC	P-FB3	Manganese	1.90	ug/l	()L	CLP
GPAQC	P-FB3	Potassium	5330	ug/l		CLP
GPAQC	P-FB3	Sodium	44800	ug/l		CLP
GPAQC	P-FB3	Zinc	186	ug/l		CLP
GPAQC	P-FB3	Total Petroleum Hydrocarbons	0.80	mg/l		TPH
GPAQC	P-FB4	Chloroform	0.09	ug/l		8010
GPAQC	P-FB4	Methylene chloride	0.96	ug/l		8010
GPAQC	P-FB4	Barium	2.40	ug/l	()	CLP
GPAQC	P-FB10	Bromodichloromethane	20	ug/l	J	8010
GPAQC	P-FB10	Chloroform	24	ug/l		8010
GPAQC	P-FB10	Dibromochloromethane	7.50	ug/l	J	8010
GPAQC	P-FB10	Methylene chloride	1.50	ug/l		8010
GPAQC	P-FB10	Toluene	0.15	ug/l		8020
GPAQC	P-FB10	Barium	48.70	ug/l	()	CLP
GPAQC	P-FB10	Calcium	84300	ug/l		CLP
GPAQC	P-FB10	Copper	47.30	ug/l		CLP
GPAQC	P-FB10	Iron	69.60	ug/l	()J	CLP
GPAQC	P-FB10	Magnesium	29100	ug/l		CLP
GPAQC	P-FB10	Manganese	1.30	ug/l	()	CLP
GPAQC	P-FB10	Potassium	2740	ug/l	()	CLP
GPAQC	P-FB10	Sodium	39500	ug/l	L	CLP
GPAQC	P-FB10	Zinc	49	ug/l		CLP

trichloroethylene, 1,1,2,2-tetrachloroethane, di-n-butylphthalate, bis(2-ethylmethyl)phthalate, aluminum, barium, calcium, copper, iron, magnesium, sodium, iron, zinc, and TPH. Table G-14 summarizes the concentrations of elements detected in the equipment rinseates.

G.2.4 Field Replicates

Initially, one replicate environmental sample was collected for every ten environmental samples, as required by DOE/HWP-65/RI. However, the laboratory analyzed several soil samples that were placed on hold and were not to be analyzed. The samples placed on hold were analyzed after the field effort had been completed and additional replicate samples could not be obtained. The data for the additional soil samples have been included in the data evaluation since it provides additional information regarding status of the sites at the ILANG, GPRA. The lack of the required number field replicates is not deemed to have effected overall data quality.

Field RPD values were calculated only for compounds and elements detected above the CRDLs in both replicate pair samples and only for those compounds and elements not considered to be common laboratory contaminants (e.g., methylene chloride). The RPD value of the detected compound or parameter was reviewed to assess the sample collection reproducibility and matrix variability. A total of 59 soil samples, 12 water samples, four soil replicate samples and two replicate water samples were collected. Table G-15 summarizes the concentrations of elements detected in the replicate environmental samples collected at the ILANG GPRA.

G.3 LABORATORY QUALITY CONTROL ASSESSMENT

All environmental samples collected at GPRA were analyzed using SW-846 methodology for GC and GC/MS analyses and EPA solid waste test methods and general chemical methodology from the following references:

TABLE G-14 ANALYTES DETECTED IN TRIP BLANKS
ILANG, 182 Airlift Wing, GPRA, Peoria, Illinois

SITE	SAMPLE ID	ANALYTE	RESULT	UNITS	QUALIFIER	METHOD
GPAQC	P-TB2	1,1,1,2-Tetrachloroethane	0.01	ug/l	J	8010
GPAQC	P-TB4	Chloroform	0.68	ug/l		8010
GPAQC	P-TB5	Toluene	0.27	ug/l		8020
GPAQC	P-TB9	Chloroform	0.04	ug/l		8010
GPAQC	P-TB10	Toluene	0.67	ug/l	J	8020
GPAQC	P-TB11	Bromoform	0.11	ug/l		8010
GPAQC	P-TB11	Toluene	0.55	ug/l		8020
GPAQC	P-TB12	2-Chlorotoluene	0.03	ug/l		8010
GPAQC	P-TB12	Chloroform	0.11	ug/l		8010
GPAQC	P-TB12	1,3-Dimethylbenzene	0.11	ug/l		8020
GPAQC	P-TB13	2-Chlorotoluene	0.03	ug/l		8010
GPAQC	P-TB13	Bromobenzene	0.38	ug/l		8010
GPAQC	P-TB13	Chloroform	0.07	ug/l		8010
GPAQC	P-TB13	Methylene chloride	0.69	ug/l		8010
GPAQC	P-TB14	Chloroform	0.05	ug/l		8010
GPAQC	P-TB14	Trichloroethylene	0.07	ug/l		8010
GPAQC	P-TB15	Chloroform	0.21	ug/l		8010
GPAQC	P-TB15	Methylene chloride	0.93	ug/l		8010
GPAQC	P-TB15	1,2-Dimethylbenzene	0.08	ug/l		8020
GPAQC	P-TB15	Toluene	0.07	ug/l		8020
GPAQC	P-TB16	Methylene chloride	0.39	ug/l		8010
GPAQC	P-TB18	Methylene chloride	0.28	ug/l		8010
GPAQC	P-TB20	Chloroform	0.25	ug/l		8010
GPAQC	P-TB20	Methylene chloride	0.33	ug/l		8010
GPAQC	P-TB20	Toluene	0.24	ug/l		8020
GPAQC	P-TB21	Chloroform	0.20	ug/l		8010
GPAQC	P-TB21	Methylene chloride	0.41	ug/l		8010
GPAQC	P-TB22	Chloroform	0.21	ug/l		8010
GPAQC	P-TB22	Methylene chloride	0.16	ug/l		8010
GPAQC	P-TB22	Ethylbenzene	0.12	ug/l		8020
GPAQC	P-TB22	Toluene	0.27	ug/l		8020
GPAQC	P-TB23	Chloroform	0.17	ug/l		8010
GPAQC	P-TB23	Methylene chloride	0.55	ug/l		8010
GPAQC	P-TB24	Chloroform	0.30	ug/l		8010
GPAQC	P-TB24	Methylene chloride	0.52	ug/l		8010
GPAQC	P-TB31	Methylene chloride	0.30	ug/l		8010
GPAQC	P-TB31	Toluene	0.14	ug/l		8020
GPAQC	P-TB32	Methylene chloride	0.24	ug/l		8010
GPAQC	P-TB32	Toluene	0.51	ug/l		8020

TABLE G-15 ANALYTES DETECTED IN FIELD REPLICATES
ILANG, 182 Airlift Wing, GPRA, Peoria, Illinois

SITE	SAMPLE ID	ANALYTE	RESULT	UNITS	QUALIFIER
GPA-S1	GPA-S1-SB1-SS4-6	2-Propanone	14	ug/kg	B
GPA-S1	GPA-S1-SB1-SS4-6	Methylene chloride	41	ug/kg	B
GPA-S1	GPA-S1-SB1-SS4-6	bis(2-Ethylhexyl)phthalate	49	ug/kg	
GPA-S1	GPA-S1-SB1-SS4-6	Aluminum	6400	mg/kg	
GPA-S1	GPA-S1-SB1-SS4-6	Arsenic	5.20	mg/kg	
GPA-S1	GPA-S1-SB1-SS4-6	Barium	79.60	mg/kg	
GPA-S1	GPA-S1-SB1-SS4-6	Beryllium	0.42	mg/kg	()
GPA-S1	GPA-S1-SB1-SS4-6	Calcium	185000	mg/kg	J
GPA-S1	GPA-S1-SB1-SS4-6	Chromium	6.80	mg/kg	J
GPA-S1	GPA-S1-SB1-SS4-6	Cobalt	4.20	mg/kg	()
GPA-S1	GPA-S1-SB1-SS4-6	Copper	8.30	mg/kg	
GPA-S1	GPA-S1-SB1-SS4-6	Iron	6940	mg/kg	J
GPA-S1	GPA-S1-SB1-SS4-6	Lead	7.90	mg/kg	K
GPA-S1	GPA-S1-SB1-SS4-6	Magnesium	18900	mg/kg	
GPA-S1	GPA-S1-SB1-SS4-6	Manganese	262	mg/kg	J
GPA-S1	GPA-S1-SB1-SS4-6	Nickel	11	mg/kg	
GPA-S1	GPA-S1-SB1-SS4-6	Potassium	640	mg/kg	()
GPA-S1	GPA-S1-SB1-SS4-6	Sodium	261	mg/kg	()B
GPA-S1	GPA-S1-SB1-SS4-6	Vanadium	12	mg/kg	()
GPA-S1	GPA-S1-SB1-SS4-6	Zinc	29.80	mg/kg	
GPA-S1	GPA-S1-SB1-SS4-6	Total Petroleum Hydrocarbons	11.30	mg/kg	
GPA-S1	GPA-S1-SB1-SS10-12	2-Propanone	10	ug/kg	
GPA-S1	GPA-S1-SB1-SS10-12	Chloroform	1	ug/kg	B
GPA-S1	GPA-S1-SB1-SS10-12	Methylene chloride	33	ug/kg	B
GPA-S1	GPA-S1-SB1-SS10-12	bis(2-Ethylhexyl)phthalate	64	ug/kg	
GPA-S1	GPA-S1-SB1-SS10-12	Aluminum	9190	mg/kg	
GPA-S1	GPA-S1-SB1-SS10-12	Arsenic	8.30	mg/kg	
GPA-S1	GPA-S1-SB1-SS10-12	Barium	106	mg/kg	
GPA-S1	GPA-S1-SB1-SS10-12	Beryllium	0.51	mg/kg	()
GPA-S1	GPA-S1-SB1-SS10-12	Calcium	42600	mg/kg	J
GPA-S1	GPA-S1-SB1-SS10-12	Chromium	15.90	mg/kg	J
GPA-S1	GPA-S1-SB1-SS10-12	Cobalt	6.40	mg/kg	()
GPA-S1	GPA-S1-SB1-SS10-12	Copper	12.40	mg/kg	
GPA-S1	GPA-S1-SB1-SS10-12	Iron	18300	mg/kg	J
GPA-S1	GPA-S1-SB1-SS10-12	Lead	4.70	mg/kg	K
GPA-S1	GPA-S1-SB1-SS10-12	Magnesium	24800	mg/kg	
GPA-S1	GPA-S1-SB1-SS10-12	Manganese	376	mg/kg	J
GPA-S1	GPA-S1-SB1-SS10-12	Nickel	14.80	mg/kg	
GPA-S1	GPA-S1-SB1-SS10-12	Potassium	1100	mg/kg	()
GPA-S1	GPA-S1-SB1-SS10-12	Sodium	276	mg/kg	()B
GPA-S1	GPA-S1-SB1-SS10-12	Vanadium	23.10	mg/kg	
GPA-S1	GPA-S1-SB1-SS10-12	Zinc	48	mg/kg	
GPA-S1	GPA-S1-SB1-SS10-12	Total Petroleum Hydrocarbons	19.20	mg/kg	
GPA-S1	GPA-S1-SB4-SS2-4	2-Butanone	3	ug/kg	J
GPA-S1	GPA-S1-SB4-SS2-4	2-Propanone	66	ug/kg	B
GPA-S1	GPA-S1-SB4-SS2-4	Chloroform	2	ug/kg	B
GPA-S1	GPA-S1-SB4-SS2-4	Methylene chloride	54	ug/kg	B
GPA-S1	GPA-S1-SB4-SS2-4	Toluene	3	ug/kg	B
GPA-S1	GPA-S1-SB4-SS2-4	2-Methylnaphthalene	96	ug/kg	
GPA-S1	GPA-S1-SB4-SS2-4	Acenaphthene	180	ug/kg	
GPA-S1	GPA-S1-SB4-SS2-4	Anthracene	620	ug/kg	
GPA-S1	GPA-S1-SB4-SS2-4	Benzo(a)anthracene	2200	ug/kg	
GPA-S1	GPA-S1-SB4-SS2-4	Benzo(a)pyrene	1700	ug/kg	
GPA-S1	GPA-S1-SB4-SS2-4	Benzo(b)fluoranthene	2800	ug/kg	
GPA-S1	GPA-S1-SB4-SS2-4	Benzo(ghi)perylene	810	ug/kg	
GPA-S1	GPA-S1-SB4-SS2-4	Benzo(k)fluoranthene	1300	ug/kg	
GPA-S1	GPA-S1-SB4-SS2-4	Chrysene	2400	ug/kg	

TABLE G-15 ANALYTES DETECTED IN FIELD REPLICATES
ILANG, 182 Airlift Wing, GPRA, Peoria, Illinois

SITE	SAMPLE ID	ANALYTE	RESULT	UNITS	QUALIFIER
GPA-S1	GPA-S1-SB4-SS2-4	Di-n-butyl phthalate	64	ug/kg	
GPA-S1	GPA-S1-SB4-SS2-4	Di-n-octyl phthalate	120	ug/kg	
GPA-S1	GPA-S1-SB4-SS2-4	Dibenzo(a,h)anthracene	230	ug/kg	
GPA-S1	GPA-S1-SB4-SS2-4	Dibenzofuran	370	ug/kg	
GPA-S1	GPA-S1-SB4-SS2-4	Fluoranthene	5500	ug/kg	
GPA-S1	GPA-S1-SB4-SS2-4	Fluorene	170	ug/kg	
GPA-S1	GPA-S1-SB4-SS2-4	Indeno(1,2,3-c,d)pyrene	810	ug/kg	
GPA-S1	GPA-S1-SB4-SS2-4	Naphthalene	140	ug/kg	
GPA-S1	GPA-S1-SB4-SS2-4	Phenanthrene	4400	ug/kg	
GPA-S1	GPA-S1-SB4-SS2-4	Pyrene	4300	ug/kg	J
GPA-S1	GPA-S1-SB4-SS2-4	bis(2-Ethylhexyl)phthalate	160	ug/kg	J
GPA-S1	GPA-S1-SB4-SS2-4	Total Petroleum Hydrocarbons	14800	mg/kg	
GPA-S1	GPA-S1-SB5-SS12-14	Methylene chloride	21	ug/kg	B
GPA-S1	GPA-S1-SB5-SS12-14	Acenaphthene	110	ug/kg	
GPA-S1	GPA-S1-SB5-SS12-14	Anthracene	260	ug/kg	
GPA-S1	GPA-S1-SB5-SS12-14	Benzo(a)anthracene	1100	ug/kg	
GPA-S1	GPA-S1-SB5-SS12-14	Benzo(a)pyrene	990	ug/kg	
GPA-S1	GPA-S1-SB5-SS12-14	Benzo(b)fluoranthene	1400	ug/kg	
GPA-S1	GPA-S1-SB5-SS12-14	Benzo(ghi)perylene	570	ug/kg	
GPA-S1	GPA-S1-SB5-SS12-14	Benzo(k)fluoranthene	580	ug/kg	
GPA-S1	GPA-S1-SB5-SS12-14	Chrysene	1300	ug/kg	
GPA-S1	GPA-S1-SB5-SS12-14	Dibenzo(a,h)anthracene	200	ug/kg	
GPA-S1	GPA-S1-SB5-SS12-14	Dibenzofuran	79	ug/kg	
GPA-S1	GPA-S1-SB5-SS12-14	Fluoranthene	2600	ug/kg	
GPA-S1	GPA-S1-SB5-SS12-14	Fluorene	110	ug/kg	
GPA-S1	GPA-S1-SB5-SS12-14	Indeno(1,2,3-c,d)pyrene	590	ug/kg	
GPA-S1	GPA-S1-SB5-SS12-14	Phenanthrene	1500	ug/kg	
GPA-S1	GPA-S1-SB5-SS12-14	Pyrene	2000	ug/kg	J
GPA-S1	GPA-S1-SB5-SS12-14	bis(2-Ethylhexyl)phthalate	73	ug/kg	B
GPA-S1	GPA-S1-SB5-SS12-14	Aluminum	10100	mg/kg	
GPA-S1	GPA-S1-SB5-SS12-14	Arsenic	6.30	mg/kg	K
GPA-S1	GPA-S1-SB5-SS12-14	Barium	70.90	mg/kg	
GPA-S1	GPA-S1-SB5-SS12-14	Beryllium	0.94	mg/kg	()
GPA-S1	GPA-S1-SB5-SS12-14	Calcium	51700	mg/kg	
GPA-S1	GPA-S1-SB5-SS12-14	Chromium	16.30	mg/kg	
GPA-S1	GPA-S1-SB5-SS12-14	Cobalt	8.80	mg/kg	()
GPA-S1	GPA-S1-SB5-SS12-14	Copper	19.10	mg/kg	
GPA-S1	GPA-S1-SB5-SS12-14	Iron	28900	mg/kg	
GPA-S1	GPA-S1-SB5-SS12-14	Lead	19	mg/kg	
GPA-S1	GPA-S1-SB5-SS12-14	Magnesium	21500	mg/kg	
GPA-S1	GPA-S1-SB5-SS12-14	Manganese	607	mg/kg	K
GPA-S1	GPA-S1-SB5-SS12-14	Nickel	18.40	mg/kg	
GPA-S1	GPA-S1-SB5-SS12-14	Sodium	247	mg/kg	()
GPA-S1	GPA-S1-SB5-SS12-14	Vanadium	32.20	mg/kg	
GPA-S1	GPA-S1-SB5-SS12-14	Zinc	86.60	mg/kg	
GPA-S1	GPA-S1-SB5-SS12-14	Total Petroleum Hydrocarbons	4860	mg/kg	
GPA-S3B	GPA-S3B-SB1-SS5-7	2-Propanone	19	ug/kg	B
GPA-S3B	GPA-S3B-SB1-SS5-7	Methylene chloride	44	ug/kg	B
GPA-S3B	GPA-S3B-SB1-SS5-7	bis(2-Ethylhexyl)phthalate	83	ug/kg	B
GPA-S3B	GPA-S3B-SB1-SS5-7	Aluminum	6510	mg/kg	
GPA-S3B	GPA-S3B-SB1-SS5-7	Arsenic	4	mg/kg	
GPA-S3B	GPA-S3B-SB1-SS5-7	Barium	49.60	mg/kg	()
GPA-S3B	GPA-S3B-SB1-SS5-7	Beryllium	0.47	mg/kg	()
GPA-S3B	GPA-S3B-SB1-SS5-7	Calcium	47200	mg/kg	J
GPA-S3B	GPA-S3B-SB1-SS5-7	Chromium	12.30	mg/kg	J
GPA-S3B	GPA-S3B-SB1-SS5-7	Cobalt	4.30	mg/kg	()
GPA-S3B	GPA-S3B-SB1-SS5-7	Copper	9.30	mg/kg	

TABLE G-15 ANALYTES DETECTED IN FIELD REPLICATES
ILANG, 182 Airlift Wing, GPRA, Peoria, Illinois

SITE	SAMPLE ID	ANALYTE	RESULT	UNITS	QUALIFIER
GPA-S3B	GPA-S3B-SB1-SS5-7	Iron	10600	mg/kg	J
GPA-S3B	GPA-S3B-SB1-SS5-7	Lead	9.10	mg/kg	K
GPA-S3B	GPA-S3B-SB1-SS5-7	Magnesium	27900	mg/kg	
GPA-S3B	GPA-S3B-SB1-SS5-7	Manganese	235	mg/kg	J
GPA-S3B	GPA-S3B-SB1-SS5-7	Nickel	10.10	mg/kg	()
GPA-S3B	GPA-S3B-SB1-SS5-7	Potassium	619	mg/kg	()
GPA-S3B	GPA-S3B-SB1-SS5-7	Sodium	254	mg/kg	()B
GPA-S3B	GPA-S3B-SB1-SS5-7	Vanadium	16.30	mg/kg	
GPA-S3B	GPA-S3B-SB1-SS5-7	Zinc	27.60	mg/kg	
GPA-S3B	GPA-S3B-SB1-SS5-7	Total Petroleum Hydrocarbons	43.40	mg/kg	
GPA-S3B	GPA-S3B-SB1-SS10-12	2-Propanone	16	ug/kg	B
GPA-S3B	GPA-S3B-SB1-SS10-12	Chloroform	2	ug/kg	B
GPA-S3B	GPA-S3B-SB1-SS10-12	Methylene chloride	29	ug/kg	B
GPA-S3B	GPA-S3B-SB1-SS10-12	bis(2-Ethylhexyl)phthalate	44	ug/kg	
GPA-S3B	GPA-S3B-SB1-SS10-12	Aluminum	7770	mg/kg	
GPA-S3B	GPA-S3B-SB1-SS10-12	Arsenic	9.20	mg/kg	
GPA-S3B	GPA-S3B-SB1-SS10-12	Barium	58.50	mg/kg	
GPA-S3B	GPA-S3B-SB1-SS10-12	Beryllium	0.50	mg/kg	()
GPA-S3B	GPA-S3B-SB1-SS10-12	Calcium	47100	mg/kg	J
GPA-S3B	GPA-S3B-SB1-SS10-12	Chromium	12.80	mg/kg	J
GPA-S3B	GPA-S3B-SB1-SS10-12	Cobalt	6.70	mg/kg	()
GPA-S3B	GPA-S3B-SB1-SS10-12	Copper	10.90	mg/kg	
GPA-S3B	GPA-S3B-SB1-SS10-12	Iron	14400	mg/kg	J
GPA-S3B	GPA-S3B-SB1-SS10-12	Lead	9.10	mg/kg	K
GPA-S3B	GPA-S3B-SB1-SS10-12	Magnesium	29200	mg/kg	
GPA-S3B	GPA-S3B-SB1-SS10-12	Manganese	433	mg/kg	J
GPA-S3B	GPA-S3B-SB1-SS10-12	Nickel	16.40	mg/kg	
GPA-S3B	GPA-S3B-SB1-SS10-12	Potassium	958	mg/kg	()
GPA-S3B	GPA-S3B-SB1-SS10-12	Sodium	241	mg/kg	()B
GPA-S3B	GPA-S3B-SB1-SS10-12	Vanadium	19.70	mg/kg	
GPA-S3B	GPA-S3B-SB1-SS10-12	Zinc	31.40	mg/kg	
GPA-S3B	GPA-S3B-SB1-SS10-12	Total Petroleum Hydrocarbons	20.60	mg/kg	
GPA-S3C	GPA-S3C-MW1-GW1	Chloroform	0.45	ug/l	B
GPA-S3C	GPA-S3C-MW1-GW1	Methylene chloride	0.47	ug/l	B
GPA-S3C	GPA-S3C-MW1-GW1	Trichloroethylene	0.13	ug/l	
GPA-S3C	GPA-S3C-MW1-GW1	Ethylbenzene	0.19	ug/l	
GPA-S3C	GPA-S3C-MW1-GW1	Toluene	0.20	ug/l	
GPA-S3C	GPA-S3C-MW1-GW1	Diethyl phthalate	1	ug/l	B
GPA-S3C	GPA-S3C-MW1-GW1	Aluminum	14300	ug/l	
GPA-S3C	GPA-S3C-MW1-GW1	Aluminum, Dissolved	141	ug/l	()B
GPA-S3C	GPA-S3C-MW1-GW1	Barium	300	ug/l	
GPA-S3C	GPA-S3C-MW1-GW1	Barium, Dissolved	213	ug/l	B
GPA-S3C	GPA-S3C-MW1-GW1	Calcium	68700	ug/l	B
GPA-S3C	GPA-S3C-MW1-GW1	Calcium, Dissolved	76000	ug/l	B
GPA-S3C	GPA-S3C-MW1-GW1	Chromium	6.30	ug/l	()
GPA-S3C	GPA-S3C-MW1-GW1	Copper	7.30	ug/l	()B
GPA-S3C	GPA-S3C-MW1-GW1	Iron	9750	ug/l	K
GPA-S3C	GPA-S3C-MW1-GW1	Iron, Dissolved	26.70	ug/l	()B
GPA-S3C	GPA-S3C-MW1-GW1	Lead	6.20	ug/l	L
GPA-S3C	GPA-S3C-MW1-GW1	Magnesium	22400	ug/l	B
GPA-S3C	GPA-S3C-MW1-GW1	Magnesium, Dissolved	23100	ug/l	B
GPA-S3C	GPA-S3C-MW1-GW1	Manganese	522	ug/l	L
GPA-S3C	GPA-S3C-MW1-GW1	Manganese, Dissolved	442	ug/l	
GPA-S3C	GPA-S3C-MW1-GW1	Potassium	8960	ug/l	B
GPA-S3C	GPA-S3C-MW1-GW1	Potassium, Dissolved	7960	ug/l	B
GPA-S3C	GPA-S3C-MW1-GW1	Sodium	11200	ug/l	B
GPA-S3C	GPA-S3C-MW1-GW1	Sodium, Dissolved	11700	ug/l	B

TABLE G-15 ANALYTES DETECTED IN FIELD REPLICATES
ILANG, 182 Airlift Wing, GPRA, Peoria, Illinois

SITE	SAMPLE ID	ANALYTE	RESULT	UNITS	QUALIFIER
GPA-S3C	GPA-S3C-MW1-GW1	Vanadium	13.70	ug/l	()
GPA-S3C	GPA-S3C-MW1-GW1	Zinc	39.30	ug/l	B
GPA-S3C	GPA-S3C-MW1-GW1	Zinc, Dissolved	5.30	ug/l	()B
GPA-S3C	GPA-S3C-MW1-GW1	Total Petroleum Hydrocarbons	0.50	mg/l	B
GPA-S3C	GPA-SBG-MW4-GW1	Chloroform	0.30	ug/l	B
GPA-S3C	GPA-SBG-MW4-GW1	Methylene chloride	0.33	ug/l	B
GPA-S3C	GPA-SBG-MW4-GW1	Trichloroethylene	0.07	ug/l	
GPA-S3C	GPA-SBG-MW4-GW1	Diethyl phthalate	1	ug/l	B
GPA-S3C	GPA-SBG-MW4-GW1	Aluminum	12000	ug/l	
GPA-S3C	GPA-SBG-MW4-GW1	Aluminum, Dissolved	95.30	ug/l	()B
GPA-S3C	GPA-SBG-MW4-GW1	Arsenic, Dissolved	4.60	ug/l	()
GPA-S3C	GPA-SBG-MW4-GW1	Barium	338	ug/l	
GPA-S3C	GPA-SBG-MW4-GW1	Barium, Dissolved	222	ug/l	B
GPA-S3C	GPA-SBG-MW4-GW1	Calcium	84400	ug/l	B
GPA-S3C	GPA-SBG-MW4-GW1	Calcium, Dissolved	81400	ug/l	B
GPA-S3C	GPA-SBG-MW4-GW1	Chromium	8.70	ug/l	()
GPA-S3C	GPA-SBG-MW4-GW1	Copper	7.50	ug/l	()B
GPA-S3C	GPA-SBG-MW4-GW1	Iron	8040	ug/l	K
GPA-S3C	GPA-SBG-MW4-GW1	Iron, Dissolved	13.30	ug/l	()B
GPA-S3C	GPA-SBG-MW4-GW1	Lead	6.20	ug/l	L
GPA-S3C	GPA-SBG-MW4-GW1	Magnesium	31100	ug/l	B
GPA-S3C	GPA-SBG-MW4-GW1	Magnesium, Dissolved	27700	ug/l	B
GPA-S3C	GPA-SBG-MW4-GW1	Manganese	604	ug/l	L
GPA-S3C	GPA-SBG-MW4-GW1	Manganese, Dissolved	485	ug/l	
GPA-S3C	GPA-SBG-MW4-GW1	Nickel	17.80	ug/l	()
GPA-S3C	GPA-SBG-MW4-GW1	Potassium	8500	ug/l	B
GPA-S3C	GPA-SBG-MW4-GW1	Potassium, Dissolved	6600	ug/l	B
GPA-S3C	GPA-SBG-MW4-GW1	Sodium	12000	ug/l	B
GPA-S3C	GPA-SBG-MW4-GW1	Sodium, Dissolved	11800	ug/l	B
GPA-S3C	GPA-SBG-MW4-GW1	Vanadium	12.10	ug/l	()
GPA-S3C	GPA-SBG-MW4-GW1	Zinc	32.10	ug/l	B
GPA-S3C	GPA-SBG-MW4-GW1	Zinc, Dissolved	12.70	ug/l	()B
GPA-S3C	GPA-SBG-MW4-GW1	Total Petroleum Hydrocarbons	0.70	mg/l	B
GPA-SBG	GPA-SBG-MW2-GW2	Methylene chloride	0.19	ug/l	B
GPA-SBG	GPA-SBG-MW2-GW2	Toluene	0.83	ug/l	B
GPA-SBG	GPA-SBG-MW2-GW2	Aluminum	2470	ug/l	J
GPA-SBG	GPA-SBG-MW2-GW2	Aluminum, Dissolved	1110	ug/l	
GPA-SBG	GPA-SBG-MW2-GW2	Arsenic	8.80	ug/l	()
GPA-SBG	GPA-SBG-MW2-GW2	Barium	184	ug/l	()B
GPA-SBG	GPA-SBG-MW2-GW2	Barium, Dissolved	178	ug/l	()B
GPA-SBG	GPA-SBG-MW2-GW2	Calcium	220000	ug/l	B
GPA-SBG	GPA-SBG-MW2-GW2	Calcium, Dissolved	158000	ug/l	B
GPA-SBG	GPA-SBG-MW2-GW2	Chromium, Dissolved	30.90	ug/l	
GPA-SBG	GPA-SBG-MW2-GW2	Copper	8.10	ug/l	()B
GPA-SBG	GPA-SBG-MW2-GW2	Iron	1300	ug/l	J
GPA-SBG	GPA-SBG-MW2-GW2	Iron, Dissolved	848	ug/l	
GPA-SBG	GPA-SBG-MW2-GW2	Lead	3.20	ug/l	B
GPA-SBG	GPA-SBG-MW2-GW2	Magnesium	99400	ug/l	B
GPA-SBG	GPA-SBG-MW2-GW2	Magnesium, Dissolved	65200	ug/l	B
GPA-SBG	GPA-SBG-MW2-GW2	Manganese	400	ug/l	
GPA-SBG	GPA-SBG-MW2-GW2	Manganese, Dissolved	131	ug/l	
GPA-SBG	GPA-SBG-MW2-GW2	Potassium	1610	ug/l	()B
GPA-SBG	GPA-SBG-MW2-GW2	Potassium, Dissolved	1570	ug/l	()B
GPA-SBG	GPA-SBG-MW2-GW2	Sodium	30800	ug/l	B
GPA-SBG	GPA-SBG-MW2-GW2	Sodium, Dissolved	33500	ug/l	B
GPA-SBG	GPA-SBG-MW2-GW2	Zinc	44.90	ug/l	B
GPA-SBG	GPA-SBG-MW2-GW2	Zinc, Dissolved	32.90	ug/l	B

TABLE G-15 ANALYTES DETECTED IN FIELD REPLICATES
ILANG, 182 Airlift Wing, GPRA, Peoria, Illinois

SITE	SAMPLE ID	ANALYTE	RESULT	UNITS	QUALIFIER
GPA-SBG	GPA-SBG-MW2-GW2	Total Petroleum Hydrocarbons	0.70	mg/l	
GPA-SBG	GPA-SBG-MW3-GW2	Methylene chloride	0.36	ug/l	B
GPA-SBG	GPA-SBG-MW3-GW2	Toluene	0.29	ug/l	B
GPA-SBG	GPA-SBG-MW3-GW2	Aluminum	6070	ug/l	J
GPA-SBG	GPA-SBG-MW3-GW2	Aluminum, Dissolved	98.90	ug/l	()B
GPA-SBG	GPA-SBG-MW3-GW2	Arsenic	4.10	ug/l	()
GPA-SBG	GPA-SBG-MW3-GW2	Barium	274	ug/l	
GPA-SBG	GPA-SBG-MW3-GW2	Barium, Dissolved	155	ug/l	()B
GPA-SBG	GPA-SBG-MW3-GW2	Beryllium	1.50	ug/l	()
GPA-SBG	GPA-SBG-MW3-GW2	Calcium	310000	ug/l	B
GPA-SBG	GPA-SBG-MW3-GW2	Calcium, Dissolved	154000	ug/l	B
GPA-SBG	GPA-SBG-MW3-GW2	Chromium	11.10	ug/l	
GPA-SBG	GPA-SBG-MW3-GW2	Cobalt	10.10	ug/l	()
GPA-SBG	GPA-SBG-MW3-GW2	Copper	16.80	ug/l	()B
GPA-SBG	GPA-SBG-MW3-GW2	Iron	4130	ug/l	J
GPA-SBG	GPA-SBG-MW3-GW2	Lead	12.30	ug/l	B
GPA-SBG	GPA-SBG-MW3-GW2	Magnesium	149000	ug/l	
GPA-SBG	GPA-SBG-MW3-GW2	Magnesium, Dissolved	61900	ug/l	B
GPA-SBG	GPA-SBG-MW3-GW2	Manganese	656	ug/l	
GPA-SBG	GPA-SBG-MW3-GW2	Manganese, Dissolved	117	ug/l	
GPA-SBG	GPA-SBG-MW3-GW2	Potassium	2010	ug/l	()B
GPA-SBG	GPA-SBG-MW3-GW2	Potassium, Dissolved	1430	ug/l	()B
GPA-SBG	GPA-SBG-MW3-GW2	Sodium	31800	ug/l	B
GPA-SBG	GPA-SBG-MW3-GW2	Sodium, Dissolved	32300	ug/l	B
GPA-SBG	GPA-SBG-MW3-GW2	Vanadium	14.30	ug/l	()
GPA-SBG	GPA-SBG-MW3-GW2	Zinc	72	ug/l	B
GPA-SBG	GPA-SBG-MW3-GW2	Zinc, Dissolved	6.60	ug/l	()B
GPA-SBG	GPA-SBG-MW3-GW2	Total Petroleum Hydrocarbons	0.30	mg/l	
GPA-SBG	GPA-SBG-SS2-0-1	2-Propanone	27	ug/kg	B
GPA-SBG	GPA-SBG-SS2-0-1	Chloroform	1	ug/kg	B
GPA-SBG	GPA-SBG-SS2-0-1	Methylene chloride	45	ug/kg	B
GPA-SBG	GPA-SBG-SS2-0-1	Benzo(a)anthracene	82	ug/kg	
GPA-SBG	GPA-SBG-SS2-0-1	Benzo(b)fluoranthene	61	ug/kg	
GPA-SBG	GPA-SBG-SS2-0-1	Benzo(k)fluoranthene	100	ug/kg	J
GPA-SBG	GPA-SBG-SS2-0-1	Chrysene	89	ug/kg	
GPA-SBG	GPA-SBG-SS2-0-1	Fluoranthene	170	ug/kg	
GPA-SBG	GPA-SBG-SS2-0-1	Phenanthrene	55	ug/kg	
GPA-SBG	GPA-SBG-SS2-0-1	Pyrene	170	ug/kg	J
GPA-SBG	GPA-SBG-SS2-0-1	Aluminum	8680	mg/kg	
GPA-SBG	GPA-SBG-SS2-0-1	Arsenic	8.70	mg/kg	J
GPA-SBG	GPA-SBG-SS2-0-1	Barium	198	mg/kg	J
GPA-SBG	GPA-SBG-SS2-0-1	Beryllium	0.62	mg/kg	()
GPA-SBG	GPA-SBG-SS2-0-1	Calcium	2510	mg/kg	
GPA-SBG	GPA-SBG-SS2-0-1	Chromium	11.60	mg/kg	
GPA-SBG	GPA-SBG-SS2-0-1	Cobalt	12.50	mg/kg	()
GPA-SBG	GPA-SBG-SS2-0-1	Copper	9.20	mg/kg	
GPA-SBG	GPA-SBG-SS2-0-1	Iron	13800	mg/kg	
GPA-SBG	GPA-SBG-SS2-0-1	Lead	33.90	mg/kg	J
GPA-SBG	GPA-SBG-SS2-0-1	Magnesium	1740	mg/kg	
GPA-SBG	GPA-SBG-SS2-0-1	Manganese	1510	mg/kg	
GPA-SBG	GPA-SBG-SS2-0-1	Nickel	9.90	mg/kg	()
GPA-SBG	GPA-SBG-SS2-0-1	Potassium	913	mg/kg	()
GPA-SBG	GPA-SBG-SS2-0-1	Sodium	113	mg/kg	()B
GPA-SBG	GPA-SBG-SS2-0-1	Vanadium	34.30	mg/kg	
GPA-SBG	GPA-SBG-SS2-0-1	Zinc	43	mg/kg	J
GPA-SBG	GPA-SBG-SS2-0-1	Total Petroleum Hydrocarbons	20.20	mg/kg	
GPA-SBG	GPA-SBG-SS2-0-2	Total Petroleum Hydrocarbons	8.10	mg/kg	

- ***Test Methods for Evaluating Solid Waste, Physical/ Chemical Methods***, SW-846, Third Edition, September 1986, with 1989 revisions (priority pollutant metals)
- ***Methods for Chemical Analyses of Water and Wastes***, EPA 600/4-79-020, EPA 1983, with revisions (TPH)

HAZWRAP Level C documentation was required and submitted by the laboratory for all analyses. All data were validated and qualified using the guidelines and specifications described in the following documents:

- ***Laboratory Data Validation Functional Guidelines for Evaluating Organic Analyses***, EPA Contract Laboratory Program, June 1991,(Region III modifications. June 1992) (VOCs and SVOCs)
- ***Laboratory Data Validation Functional Guidelines for Evaluating Inorganic Analyses***, EPA Contract Laboratory Program, February 1988 (target analyte metals)
- ***Requirements for Quality Control of Analytical Data***, Hazardous Waste Remedial Actions Program (DOE/HWP-65/R1), July 1990 (VOC and by GC and TPH)

All data validation qualifiers used were applied to the data as required by the forementioned guidelines. A complete summary of all data obtained and the qualifiers applied to that data is presented in Appendix H.

Appendix H: Laboratory Data Validation Summaries and Data

Peoria ANG

Peoria Illinois

Volatile Organic Data Validation 8010/8020

Sample Date: April 1993

Overview

Fourteen water samples were analyzed by SW 846 8010/8020 methodology.

Seven samples were Quality Assurance/Quality Control (QA/QC) samples (trip blanks, field blanks and equipment blanks). Seven samples were groundwater samples.

Summary

All samples were successfully analyzed for all compounds. Some of the detects above the Contract Required Quantitation Limit noted in the initial analysis, which required second column confirmation, were not analyzed within holding times. If the results of the second column confirmation performed outside holding times varied by more than 50% then the result was qualified "J" for estimated. Most samples were reanalyzed within one day of holding times.

The QA/QC level was Hazardous Waste Remedial Acitons Program (HAZWRAP) level C for all samples.

Major Problems

None

Minor Problems

Calibrations

On initial and/or continuing calibrations some compounds failed precision criteria percent relative standard deviation (%RSD), percent difference (%D). Corresponding compounds detected in the samples analyzed were qualified "J" for estimated. Non-detects for the compounds failing calibration criteria were not qualified.

Spike Recoveries

In most sample delivery groups 2-chloroethyl-vinyl ether was not detected in the matrix spike/matrix spike duplicate analyses. All other associated standards and calibrations met Quality Control (QC) criteria. The non-detection of these compounds may be due to the low concentration of compound added, the length of time between addition of the spikes and analysis, and a possible matrix effect. No qualifiers were attached to the data.

Surrogates

All surrogate recoveries met required QC criteria with the exception of sample GPA- S3B-MW1-GW2. The analysis of GPA- S3B-MW1-GW2 reported low surrogate recoveries for halogenated surrogates. The corresponding compounds were qualified "J" for detected compounds and "UJ" for non-detects.

Blanks

Laboratory samples indicated the presence of common laboratory contaminants. Methylene

chloride, and 1,2-dichlorobenzene were detected in associated laboratory blanks. These compound were qualified "B" if detected at less than ten times the associated blank concentration.

Methylene chloride, chloroform, toluene, and bromodichloromethane, were detected in associated field blanks. Corresponding samples were qualified "B" based on the presence of these compounds in the field blanks.

The following samples were found to contain less than 10 times the maximum associated blank concentration of contaminants and were qualified "B":

SAMPLE	COMPOUND
GPA-S1-MW1-GW2	Methylene chloride, toluene
GPA-BG-MW2-GW2	Methylene chloride, toluene
GPA-BG-MW3-GW2	Toluene
GPA-S3A-MW1-GW2	Toluene
GPA-S3B-MW1-GW2	Toluene
GPA-S3C-MW1-GW2	Chloroform, toluene
GPA-ER10	Methylene chloride
GPA-ER11	Methylene chloride, toluene

No other problems were encountered during data validation.

Peoria ANG

Peoria Illinois

Semi-Volatile Organic Data Validation 8270

Sampling Dates: April 1993

Overview

Ten water samples were validated for semi-volatile organic compounds analyzed using SW-846 methodology.

Summary

All samples were successfully analyzed for target compounds. The QA/QC level was HAZWRAP level C for all samples.

Major Problems

None.

Minor problems

Surrogates

Sample GPA-BG-MW1-GW2 and GPA-S1-MW1-GW2 reported less than 10 percent recovery for the acid fraction. Reanalysis was performed to confirm a possible matrix effect and reported identical results. The quantitation limits for compounds corresponding to the acid

fraction were qualified "R" due to the less than 10 percent recovery of the surrogates.

Calibration Criteria

Several compounds failed precision criteria ($RSD < 30\%$, $\%D < 25$) during initial and/or continuing calibrations. Detects for these compounds were qualified "J" for estimated. The quantitation limits for non-detects were not qualified.

Benzoic acid reported a continuing calibration Relative Response Factor of less than .05. Quantatitation limits for effected samples, GPA-BG-MW1-GW2 and GPA-S1-MW1-GW2, were qualified "R".

Blanks

Sample FB-10 was found to contain less than 10 times the concentration of butylbenzylphthalate than the associated laboratory blank.

Peoria ANG

Peoria Illinois

Inorganic Data Validation CLP TAL

Sampling Dates: April 1993

Overview

Nineteen water samples consisting of seven filtered samples, twelve unfiltered samples were analyzed according to Contract Laboratory Program Target Analyte list for Inorganic Analysis.

Summary

All analytes were successfully analyzed. The QA/QC level was HAZWRAP Level C for all samples.

Major Problems

None

Minor Problems

Blanks

The following samples reported results less than five times the maximum concentration found in the associated blank samples. The reported results are biased high due to blank

contamination and have been qualified "B".

Sample	Matrix	Analyte
GPA-S3A-MW1-GW2	Water	Al, Ba, Ca, Fe, Mg, Na, K, Zn
GPA-S3B-MW1-GW2	Water	Ba, Ca, Na, K, Zn
GPA-S3C-MW1-GW2	Water	Ca, Cu, Na, K, Zn
GPA-ER10	Water	Al, Ca, Na
GPA-FB10	Water	Al
GPA-BG-MW1-GW2	Water	Ba, Ca, Pb, Na, Zn
GPA-BG-MW2-GW2	Water	Ba, Ca, Pb, Mg, Na, K, Zn
GPA-BG-MW3-GW2	Water	Ca, Pb, Na, K, Zn
GPA-S1-MW1-GW2	Water	Ba, Ca, Pb, Mg, Na, Zn
GPA-S3A-MW1-GW2F	Water	Al, Ba, Ca, Fe, Mg, K, Na, Zn
GPA-S3B-MW1-GW2F	Water	Al, Ba, Ca, Mg, K, Na
GPA-S3C-MW1-GW2F	Water	Al, Ba, Ca, Fe, Mg, K, Na, Zn
GPA-BG-MW1-GW2F	Water	Al, Ba, Ca, Mg, Na, Zn
GPA-BG-MW2-GW2F	Water	Ba, Ca, Mg, Na, K, Zn
GPA-S1-MW1-GW2F	Water	Ba, Ca, Mg, Na, Zn

Field blanks associated with the samples were found to contain small concentrations of

aluminum, and zinc. This resulted in the qualification of some of the lower detects in the environmental samples as "B".

Laboratory Control Samples

All laboratory control samples were reported to be within specified control limits with the exception of SDG# 715448. Control limits for selenium and sodium exceeded the allowable limit of 120%. Detects for these compounds were qualified "K" for biased high.

Serial Dilution

The following analytes in the inductively coupled plasma serial dilutions were outside control limits, indicating a sample matrix effect.

Case	Analyte
SDG# 715448	Zn
SDG# 50045	Al

Positive results for samples reporting values greater than 50 times the Instrument Detection Limit were qualified "J" unless superseded by qualifier "B", and the quantitation limits were qualified "UJ".

Matrix Spike

The following analytes were detected outside the control limits for the matrix spike/matrix spike duplicate analysis and have been qualified accordingly.

CASE	ANALYTE	RECOVERY	QUALIFIER
715448	Sb	Low	L, UL
	Pb	High	K
	Hg	High	K
271549	Al	High	K
	Fe	High	K
	Pb	Low	L, UL
	Se	Low	L, UL
	Ti	Low	L, UL
50045	Pb	Low	L, UL
	Ti	Low	L, UL

Holding Times

All samples were analyzed within recommended holding times.

Appendix H Data Summary Table
ILANG, 182 Airlift Wing, GPRA, Peoria, Illinois

LOCATOR: MW1 MW1 SB1 SB1 SB1 SB1													
SAMPLE ID: GPA-S1-MW1-SS04-05 GPA-S1-MW1-SS08-09 GPA-S1-SB1-SS2-4 GPA-S1-SB1-SS4-6 GPA-S1-SB1-SS10-12 GPA-S1-SB1-SS6-8													
COLLECTION DATE: 01/17/93 01/17/93 12/10/92 12/10/92 12/10/92 12/10/92													
UNITS: RESULT QUAL RESULT QUAL RESULT QUAL RESULT QUAL RESULT QUAL RESULT QUAL													
Volatiles by 8240													
1,1,1-Trichloroethane	ug/kg	6	U	6	U	6	U	6	U	6	U	6	U
1,1,2,2-Tetrachloroethane	ug/kg	13	U	13	U	13	U	12	U	12	U	12	U
1,1,2-Trichloroethane	ug/kg	6	U	6	U	6	U	6	U	6	U	6	U
1,1-Dichloroethane	ug/kg	6	U	6	U	6	U	6	U	6	U	6	U
1,1-Dichloroethylene	ug/kg	6	U	6	U	6	U	6	U	6	U	6	U
1,2-Dichloroethane	ug/kg	6	U	6	U	6	U	6	U	6	U	6	U
1,2-Dichloroethylene	ug/kg	6	U	6	U	6	U	6	U	6	U	6	U
1,2-Dichloropropane	ug/kg	6	U	6	U	6	U	6	U	6	U	6	U
1,3-cis-Dichloropropylene	ug/kg	6	U	6	U	6	U	6	U	6	U	6	U
1,3-trans-Dichloropropylene	ug/kg	6	U	6	U	6	U	6	U	6	U	6	U
2-Butanone	ug/kg	7	U	7	U	13	U	12	U	12	U	12	U
2-Hexanone	ug/kg	19	U	19	U	19	U	19	U	19	U	19	U
2-Propanone	ug/kg	79	B	61	B	19	B	14	B	10	B	10	B
4-Methyl-2-pentanone	ug/kg	19	U	19	U	19	U	19	U	19	U	19	U
Benzene	ug/kg	6	U	6	U	6	U	6	U	6	U	6	U
Bromodichloromethane	ug/kg	6	U	6	U	6	U	6	U	6	U	6	U
Bromoform	ug/kg	13	U	13	U	13	U	12	U	12	U	12	U
Carbon Disulfide	ug/kg	6	U	6	U	6	U	6	U	6	U	6	U
Carbon Tetrachloride	ug/kg	6	U	6	U	6	U	6	U	6	U	6	U
Chlorobenzene	ug/kg	6	U	6	U	6	U	6	U	6	U	6	U
Chloroethane	ug/kg	13	U	13	U	13	U	12	U	12	U	12	U
Chloroform	ug/kg	6	U	6	U	6	U	6	U	1	B	2	B
Dibromochloromethane	ug/kg	6	U	6	U	6	U	6	U	6	U	6	U
Ethylbenzene	ug/kg	6	U	6	U	6	U	6	U	6	U	6	U
Methyl bromide	ug/kg	6	U	6	U	6	U	6	U	6	U	6	U
Methyl chloride	ug/kg	13	U	13	U	13	U	12	U	12	U	12	U
Methylene chloride	ug/kg	21	B	44	B	41	B	41	B	33	B	21	B
Styrene	ug/kg	6	U	6	U	6	U	6	U	6	U	6	U
Tetrachloroethylene	ug/kg	6	U	6	U	6	U	6	U	6	U	6	U
Toluene	ug/kg	6	U	6	U	6	U	6	U	6	U	6	U
Trichloroethylene	ug/kg	6	U	6	U	6	U	6	U	6	U	6	U
Vinyl Acetate	ug/kg	13	U	13	U	13	U	12	U	12	U	12	U
Vinyl chloride	ug/kg	13	U	13	U	13	U	12	U	12	U	12	U
Xylenes (TOTAL)	ug/kg	6	U	6	U	6	U	6	U	6	U	6	U
Semi-volatiles by 8070													
1,2,4-Trichlorobenzene	ug/kg	410	U	410	U	410	U	410	U	400	U	400	U

Appendix H Data Summary Table
ILANG, 182 Airlift Wing, GPRA, Peoria, Illinois

LOCATOR:		MW1		MW1		SB1		SB1		SB1		SB1	
SAMPLE ID:		GPA-S1-MW1-SS04-05		GPA-S1-MW1-SS08-09		GPA-S1-SB1-SS2-4		GPA-S1-SB1-SS4-6		GPA-S1-SB1-SS10-12		GPA-S1-SB1-SS6-8	
COLLECTION DATE:		01/17/93		01/17/93		12/10/92		12/10/92		12/10/92		12/10/92	
UNITS:		RESULT	QUAL	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL
1,2-Dichlorobenzene	ug/kg	410	U	410	U	410	U	410	U	400	U	400	U
	ug/kg	410	U	410	U	410	U	410	U	400	U	400	U
1,3-Dichlorobenzene	ug/kg	410	U	410	U	410	U	410	U	400	U	400	U
1,4-Dichlorobenzene	ug/kg	410	U	410	U	410	U	410	U	400	U	400	U
2,4,5-Trichlorophenol	ug/kg	830	U	830	U	830	U	820	U	810	U	800	U
2,4,6-Trichlorophenol	ug/kg	830	U	830	U	830	U	820	U	810	U	800	U
2,4-Dichlorophenol	ug/kg	410	U	410	U	410	U	410	U	400	U	400	U
2,4-Dimethylphenol	ug/kg	410	U	410	U	410	U	410	U	400	U	400	U
2,4-Dinitrophenol	ug/kg	1600	U	1600	U	1600	U	1600	U	1600	U	1600	U
2,4-Dinitrotoluene	ug/kg	410	U	410	U	410	U	410	U	400	U	400	U
2,6-Dinitrotoluene	ug/kg	410	U	410	U	410	U	410	U	400	U	400	U
2-Chloronaphthalene	ug/kg	410	U	410	U	410	U	410	U	400	U	400	U
2-Chlorophenol	ug/kg	410	U	410	U	410	U	410	U	400	U	400	U
2-Methyl-4,6-Dinitrophenol	ug/kg	1200	U	1200	U	1200	U	1200	U	1200	U	1200	U
2-Methylnaphthalene	ug/kg	410	U	410	U	410	U	410	U	400	U	400	U
2-Methylphenol	ug/kg	410	U	410	U	410	U	410	U	400	U	400	U
2-Nitroaniline	ug/kg	410	U	410	U	410	U	410	U	400	U	400	U
2-Nitrophenol	ug/kg	410	U	410	U	410	U	410	U	400	U	400	U
3,3'-Dichlorobenzidine	ug/kg	410	U	410	U	410	U	410	U	400	U	400	U
3-Nitroaniline	ug/kg	830	U	830	U	830	U	820	U	810	U	800	U
4-Bromophenyl phenyl ether	ug/kg	410	U	410	U	410	U	410	U	400	U	400	U
4-Chloro-3-methyl phenol	ug/kg	410	U	410	U	410	U	410	U	400	U	400	U
4-Chloroaniline	ug/kg	410	U	410	U	410	U	410	U	400	U	400	U
4-Chlorophenyl phenyl ether	ug/kg	410	U	410	U	410	U	410	U	400	U	400	U
4-Methylphenol	ug/kg	410	U	410	U	410	U	410	U	400	U	400	U
4-Nitroaniline	ug/kg	830	U	830	U	830	U	820	U	810	U	800	U
4-Nitrophenol	ug/kg	410	U	410	U	410	U	410	U	400	U	400	U
Acenaphthene	ug/kg	410	U	410	U	410	U	410	U	400	U	400	U
Acenaphthylene	ug/kg	410	U	410	U	410	U	410	U	400	U	400	U
Anthracene	ug/kg	410	U	410	U	410	U	410	U	400	U	400	U
Benzo(a)anthracene	ug/kg	410	U	410	U	410	U	410	U	400	U	400	U
Benzo(a)pyrene	ug/kg	410	U	410	U	410	U	410	U	400	U	400	U
Benzo(b)fluoranthene	ug/kg	410	U	410	U	410	U	410	U	400	U	400	U
Benzo(ghi)perylene	ug/kg	410	U	410	U	410	U	410	U	400	U	400	U
Benzo(k)fluoranthene	ug/kg	410	U	410	U	410	U	410	U	400	U	400	U
Benzoic Acid	ug/kg	4100	U	4100	U	4100	U	4100	U	4000	U	4000	U
Benzyl Alcohol	ug/kg	410	U	410	U	410	U	410	U	400	U	400	U

Appendix H Data Summary Table ILANG, 182 Airlift Wing, GPRA, Peoria, Illinois

LOCATOR:	MW1		MW1		SB1		SB1		SB1		SB1	
	GPA-S1-MW1-SS04-05	01/17/93	GPA-S1-MW1-SS08-09	01/17/93	GPA-S1-SB1-SS2-4	12/10/92	GPA-S1-SB1-SS4-6	12/10/92	GPA-S1-SB1-SS10-12	12/10/92	GPA-S1-SB1-SS6-8	12/10/92
COLLECTION DATE: 01/17/93												
UNITS:	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL
Butyl benzyl phthalate	ug/kg	410	U	410	U	410	U	410	U	400	U	U
Chrysene	ug/kg	410	U	410	U	410	U	410	U	400	U	U
Di-n-butyl phthalate	ug/kg	410	U	410	U	410	U	410	U	400	U	U
Di-n-octyl phthalate	ug/kg	410	U	410	U	410	U	410	U	400	U	U
Dibenzo(a,h)anthracene	ug/kg	410	U	410	U	410	U	410	U	400	U	U
Dibenzofuran	ug/kg	410	U	410	U	410	U	410	U	400	U	U
Diethyl phthalate	ug/kg	410	U	410	U	410	U	410	U	400	U	U
Dimethyl phthalate	ug/kg	410	U	410	U	410	U	410	U	400	U	U
Fluoranthene	ug/kg	410	U	410	U	410	U	410	U	400	U	U
Fluorene	ug/kg	410	U	410	U	410	U	410	U	400	U	U
Hexachlorobenzene	ug/kg	410	U	410	U	410	U	410	U	400	U	U
Hexachlorobutadiene	ug/kg	410	U	410	U	410	U	410	U	400	U	U
Hexachlorocyclopentadiene	ug/kg	410	U	410	U	410	U	410	U	400	U	U
Hexachloroethane	ug/kg	410	U	410	U	410	U	410	U	400	U	U
Indeno(1,2,3-c,d)pyrene	ug/kg	410	U	410	U	410	U	410	U	400	U	U
Isophorone	ug/kg	410	U	410	U	410	U	410	U	400	U	U
N-Nitrosodi-N-Propylamine	ug/kg	410	U	410	U	410	U	410	U	400	U	U
N-Nitrosodiphenylamine	ug/kg	410	U	410	U	410	U	410	U	400	U	U
Naphthalene	ug/kg	410	U	410	U	410	U	410	U	400	U	U
Nitrobenzene	ug/kg	410	U	410	U	410	U	410	U	400	U	U
Pentachlorophenol	ug/kg	830	U	830	U	830	U	820	U	800	U	U
Phenanthrene	ug/kg	410	U	410	U	410	U	410	U	400	U	U
Phenol	ug/kg	410	U	410	U	410	U	410	U	400	U	U
Pyrene	ug/kg	410	U	410	U	410	U	410	U	400	U	U
bis(2-Chloroethoxy)methane	ug/kg	410	U	410	U	410	U	410	U	400	U	U
bis(2-Chloroethyl) ether	ug/kg	830	U	830	U	830	U	820	U	800	U	U
bis(2-Chloroisopropyl)ether	ug/kg	410	U	410	U	410	U	410	U	400	U	U
bis(2-Ethylhexyl)phthalate	ug/kg	410	U	130	U	100	J	49	U	64	52	U

Metals												
Aluminum	mg/kg	15600	UL	11500	UL	16700	UL	6400	9190	9700	UL	
Antimony	mg/kg	14.50		14.40		15.20		15	14.80	14.80		
Arsenic	mg/kg	10.10		4.30		4.20		5.20	8.30	2.70		
Barium	mg/kg	105		105		142		79.60	106	70		
Beryllium	mg/kg	0.86		0.76	U	1	0	0.42	0.51	0.57	0	
Cadmium	mg/kg	1.30	U	1.30	U	1.30	U	1.20	1.20	1.20	U	

Appendix H Data Summary Table ILANG, 182 Airlift Wing, GPRA, Peoria, Illinois

LOCATOR: MW1
SAMPLE ID: GPA-S1-MW1-SS04-05
COLLECTION DATE: 01/17/93

MW1
GPA-S1-MW1-SS08-09
01/17/93

SB1
GPA-S1-SB1-SS2-4
12/10/92

SB1
GPA-S1-SB1-SS4-6
12/10/92

SB1
GPA-S1-SB1-SS10-12
12/10/92

SB1
GPA-S1-SB1-SS6-8
12/10/92

	UNITS:	MW1		MW1		SB1		SB1		SB1		SB1	
		RESULT	QUAL	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL
Calcium	mg/kg	2520		19100		2870	J	185000	J	42600	J	38700	J
Chromium	mg/kg	22.20		19.50		22.50	J		J	15.90	J	15.50	J
Cobalt	mg/kg	9.20	()	11.60	()	9.30	()	4.20	()	6.40	()	9.10	()
Copper	mg/kg	17.40	L	14.30		19.30		8.30		12.40		10.40	
Iron	mg/kg	24000		16500		25300	J	6940	J	18300	J	11000	J
Lead	mg/kg	16.60	L	7.60	L	15.40	K	7.90	K	4.70	K	12.10	K
Magnesium	mg/kg	3390		12200		3890		18900		24800		24200	
Manganese	mg/kg	330		420		407	J	262	J	376	J	212	J
Mercury	mg/kg	0.13	U	0.13	U	0.13	U	0.12	U	0.12	U	0.12	U
Nickel	mg/kg	20.10		14.20		20.10		11		14.80		13.10	
Potassium	mg/kg	1460		1700		979		640		1100		1170	
Selenium	mg/kg	0.77	U	0.76	U	1	UL	1	UL	0.98	UL	0.99	UL
Silver	mg/kg	2.60	U	2.50	U	1.50	U	1.50	U	1.50	U	1.50	U
Sodium	mg/kg	220	()	232		296		261	()B	276	()B	285	()B
Thallium	mg/kg	0.77	U	0.76	U	0.51	UL	0.50	UL	0.49	UL	0.49	UL
Vanadium	mg/kg	32.90		32.10		29.90		12		23.10		20.30	
Zinc	mg/kg	57.10		65.80		60.30		29.80		48		41	
TPH													
Total Petroleum Hydrocarbons	mg/kg	17.90		50.20		46.90		11.30		19.20		46.10	

Appendix H Data Summary Table ILANG, 182 Airlift Wing, GPRA, Peoria, Illinois

LOCATOR:		SB2		SB2		SB2		SB3		SB3		SB3	
SAMPLE ID:		GPA-S1-SB2-SS0-2		GPA-S1-SB2-SS2-4		GPA-S1-SB2-SS4-6		GPA-S1-SB3-SS2-4		GPA-S1-SB3-SS4-6		GPA-S1-SB3-SS6-8	
COLLECTION DATE:		12/10/92		12/10/92		12/10/92		12/10/92		12/10/92		12/10/92	
UNITS:		RESULT	QUAL	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL
Volatiles by 8240													
1,1,1-Trichloroethane	ug/kg	6	U	6	U	6	U	6	U	6	U	7	U
1,1,2,2-Tetrachloroethane	ug/kg	12	U	12	U	12	U	12	U	12	U	14	U
1,1,2-Trichloroethane	ug/kg	6	U	6	U	6	U	6	U	6	U	7	U
1,1-Dichloroethane	ug/kg	6	U	6	U	6	U	6	U	6	U	7	U
1,1-Dichloroethylene	ug/kg	6	U	6	U	6	U	6	U	6	U	7	U
1,2-Dichloroethane	ug/kg	6	U	6	U	6	U	6	U	6	U	7	U
1,2-Dichloroethylene	ug/kg	6	U	6	U	6	U	6	U	6	U	7	U
1,2-Dichloropropane	ug/kg	6	U	6	U	6	U	6	U	6	U	7	U
1,3-cis-Dichloropropylene	ug/kg	6	U	6	U	6	U	6	U	6	U	7	U
1,3-trans-Dichloropropylene	ug/kg	6	U	6	U	6	U	6	U	6	U	7	U
2-Butanone	ug/kg	6	U	6	U	6	U	6	U	6	U	7	U
2-Hexanone	ug/kg	12	U	11	J	18	J	12	U	3	J	14	U
2-Propanone	ug/kg	18	U	18	U	18	U	19	U	19	U	20	U
4-Methyl-2-pentanone	ug/kg	33	B	64	B	73	B	32	B	54	B	67	B
Benzene	ug/kg	18	U	18	U	18	U	19	U	19	U	20	U
Bromodichloromethane	ug/kg	6	U	6	U	6	U	6	U	6	U	7	U
Bromoform	ug/kg	6	U	6	U	6	U	6	U	6	U	7	U
Carbon Disulfide	ug/kg	12	U	12	U	12	U	12	U	12	U	14	U
Carbon Tetrachloride	ug/kg	6	U	6	U	6	U	6	U	6	U	7	U
Chlorobenzene	ug/kg	6	U	6	U	6	U	6	U	6	U	7	U
Chloroethane	ug/kg	12	U	12	U	12	U	12	U	12	U	14	U
Chloroform	ug/kg	2	B	1	B	6	U	2	B	6	U	2	B
Dibromochloromethane	ug/kg	6	U	6	U	6	U	6	U	6	U	7	U
Ethylbenzene	ug/kg	6	U	6	U	6	U	6	U	6	U	7	U
Methyl bromide	ug/kg	6	U	6	U	6	U	6	U	6	U	7	U
Methyl chloride	ug/kg	12	U	12	U	12	U	12	U	12	U	14	U
Methylene chloride	ug/kg	19	B	21	B	20	B	38	B	58	B	54	B
Styrene	ug/kg	6	U	6	U	6	U	6	U	6	U	7	U
Tetrachloroethylene	ug/kg	6	U	6	U	6	U	6	U	6	U	7	U
Toluene	ug/kg	6	U	6	U	6	U	6	U	6	U	7	U
Trichloroethylene	ug/kg	6	U	6	U	6	U	6	U	6	U	7	U
Vinyl Acetate	ug/kg	12	U	12	U	12	U	12	U	12	U	14	U
Vinyl chloride	ug/kg	12	U	12	U	12	U	12	U	12	U	14	U
Xylenes (TOTAL)	ug/kg	6	U	6	U	6	U	6	U	6	U	7	U
Semi-volatiles by 8070													
1,2,4-Trichlorobenzene	ug/kg	770	U	-	U	390	U	410	U	410	U	440	U

Appendix H Data Summary Table ILANG, 182 Airlift Wing, GPRA, Peoria, Illinois

LOCATOR: SAMPLE ID: COLLECTION DATE:	SB2		SB2		SB2		SB3		SB3		SB3	
	GPA-S1-SB2-SS0-2	12/10/92	GPA-S1-SB2-SS2-4	12/10/92	GPA-S1-SB2-SS4-6	12/10/92	GPA-S1-SB3-SS2-4	12/10/92	GPA-S1-SB3-SS4-6	12/10/92	GPA-S1-SB3-SS6-8	12/10/92
UNITS:	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL
1,2-Dichlorobenzene	ug/kg	770	U		390	U	410	U	410	U	440	U
1,3-Dichlorobenzene	ug/kg	770	U		390	U	410	U	410	U	440	U
1,4-Dichlorobenzene	ug/kg	770	U		390	U	410	U	410	U	440	U
2,4,5-Trichlorophenol	ug/kg	1500	U		780	U	820	U	810	U	880	U
2,4,6-Trichlorophenol	ug/kg	1500	U		780	U	820	U	810	U	880	U
2,4-Dichlorophenol	ug/kg	770	U		390	U	410	U	410	U	440	U
2,4-Dimethylphenol	ug/kg	770	U		390	U	410	U	410	U	440	U
2,4-Dinitrophenol	ug/kg	3000	U		1500	U	1600	U	1600	U	1700	U
2,4-Dinitrotoluene	ug/kg	770	U		390	U	410	U	410	U	440	U
2,6-Dinitrotoluene	ug/kg	770	U		390	U	410	U	410	U	440	U
2-Chloronaphthalene	ug/kg	770	U		390	U	410	U	410	U	440	U
2-Chlorophenol	ug/kg	770	U		390	U	410	U	410	U	440	U
2-Methyl-4,6-Dinitrophenol	ug/kg	2300	U		1200	U	1200	U	1200	U	1300	U
2-Methylnaphthalene	ug/kg	150	U		390	U	410	U	410	U	440	U
2-Methylphenol	ug/kg	770	U		390	U	410	U	410	U	440	U
2-Nitroaniline	ug/kg	770	U		390	U	410	U	410	U	440	U
2-Nitrophenol	ug/kg	770	U		390	U	410	U	410	U	440	U
3,3'-Dichlorobenzidine	ug/kg	770	U		390	U	410	U	410	U	440	U
3-Nitroaniline	ug/kg	1500	U		780	U	820	U	810	U	880	U
4-Bromophenyl phenyl ether	ug/kg	770	U		390	U	410	U	410	U	440	U
4-Chloro-3-methyl phenol	ug/kg	770	U		390	U	410	U	410	U	440	U
4-Chloroaniline	ug/kg	770	U		390	U	410	U	410	U	440	U
4-Chlorophenyl phenyl ether	ug/kg	770	U		390	U	410	U	410	U	440	U
4-Methylphenol	ug/kg	770	U		390	U	410	U	410	U	440	U
4-Nitroaniline	ug/kg	1500	U		780	U	820	U	810	U	880	U
4-Nitrophenol	ug/kg	770	U		390	U	410	U	410	U	440	U
Acenaphthene	ug/kg	280	U		390	U	410	U	410	U	440	U
Acenaphthylene	ug/kg	770	U		390	U	410	U	410	U	440	U
Anthracene	ug/kg	700	U		44	U	410	U	410	U	440	U
Benzo(a)anthracene	ug/kg	2900	U		210	U	110	U	410	U	440	U
Benzo(a)pyrene	ug/kg	2600	U		260	U	120	U	410	U	440	U
Benzo(b)fluoranthene	ug/kg	3500	U		300	U	190	U	410	U	440	U
Benzo(ghi)perylene	ug/kg	1900	U		220	U	70	U	410	U	440	U
Benzo(k)fluoranthene	ug/kg	1700	U		150	U	85	U	410	U	440	U
Benzoic Acid	ug/kg	7700	U		3900	U	4100	U	4100	U	4400	U
Benzyl Alcohol	ug/kg	770	U		390	U	410	U	410	U	440	U

Appendix H Data Summary Table
ILANG, 182 Airlift Wing, GPRA, Peoria, Illinois

LOCATOR: SB2 SB2 SB2 SB3 SB3 SB3
SAMPLE ID: GPA-S1-SB2-SS0-2 GPA-S1-SB2-SS2-4 GPA-S1-SB2-SS4-6 GPA-S1-SB3-SS2-4 GPA-S1-SB3-SS4-6 GPA-S1-SB3-SS6-8
COLLECTION DATE: 12/10/92 12/10/92 12/10/92 12/10/92 12/10/92 12/10/92

	SB2		SB2		SB2		SB3		SB3		SB3	
	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL
UNITS:												
ug/kg												
Butyl benzyl phthalate	770	U	-	-	390	U	410	U	410	U	440	U
Chrysene	3100		-	-	310		160		410		440	U
Di-n-butyl phthalate	770	U	-	-	390	U	410	U	410	U	440	U
Di-n-octyl phthalate	770	U	-	-	390		410		410		440	U
Dibenzofuran	590		-	-	45		410		410		440	U
Dibenzofuran	210		-	-	390	U	410	U	410	U	440	U
Diethyl phthalate	770	U	-	-	390	U	410	U	410	U	440	U
Dimethyl phthalate	770	U	-	-	390	U	410	U	410	U	440	U
Fluoranthene	4700		-	-	540		250		410		440	U
Fluorene	430		-	-	390	U	410	U	410	U	440	U
Hexachlorobenzene	770	U	-	-	390	U	410	U	410	U	440	U
Hexachlorobutadiene	770	U	-	-	390	U	410	U	410	U	440	U
Hexachlorocyclopentadiene	770	U	-	-	390	U	410	U	410	U	440	U
Hexachloroethane	770	U	-	-	390	U	410	U	410	U	440	U
Indeno(1,2,3-c,d)pyrene	2300		-	-	190		79		410		440	U
Isophorone	770	U	-	-	390	U	410	U	410	U	440	U
N-Nitrosodi-N-Propylamine	770	U	-	-	390	U	410	U	410	U	440	U
N-Nitrosodiphenylamine	770	U	-	-	390	U	410	U	410	U	440	U
Naphthalene	770	U	-	-	390	U	410	U	410	U	440	U
Nitrobenzene	770	U	-	-	390	U	410	U	410	U	440	U
Pentachlorophenol	1500	U	-	-	780	U	820	U	810	U	880	U
Phenanthrene	3400		-	-	320		160		410		440	U
Phenol	770	U	-	-	390	U	410	U	410	U	440	U
Pyrene	4900		-	-	460		240		410		440	U
bis(2-Chloroethoxy)methane	770	U	-	-	390	U	410	U	410	U	440	U
bis(2-Chloroethyl) ether	1500	U	-	-	780	U	820	U	810	U	880	U
bis(2-Chloroisopropyl)ether	770	U	-	-	390	U	410	U	410	U	440	U
bis(2-Ethylhexyl)phthalate	80		-	-	83		410		410		440	U
Metals												
Aluminum	14300		-	-	13300		21400		9150		-	
Antimony	13.40	UL	-	-	13.60	UL	14.30	UL	14.10	UL	-	
Arsenic	12	K	-	-	8.40	K	7.40	K	5.80	K	-	
Barium	139		-	-	129		201		207		-	
Beryllium	0.94	()	-	-	0.64	()	1	()	0.78	()	-	
Cadmium	2		-	-	4.70		1.30	U	1.20	U	-	

Appendix H Data Summary Table ILANG, 182 Airlift Wing, GPRA, Peoria, Illinois

LOCATOR: SB2 SB2 SB2 SB3 SB3 SB3
SAMPLE ID: GPA-S1-SB2-SS0-2 GPA-S1-SB2-SS2-4 GPA-S1-SB2-SS4-6 GPA-S1-SB3-SS2-4 GPA-S1-SB3-SS4-6 GPA-S1-SB3-SS6-8
COLLECTION DATE: 12/10/92 12/10/92 12/10/92 12/10/92 12/10/92 12/10/92

UNITS:		RESULT	QUAL	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL
Calcium	mg/kg	1990	-	18100	-	14200	-	1620	-	-	-	-	-
Chromium	mg/kg	25	-	19	-	25.10	-	12.20	-	-	-	-	-
Cobalt	mg/kg	9.60	()	7.60	()	11.40	()	11.80	()	-	-	-	-
Copper	mg/kg	20.80	-	14.70	-	21.60	-	8.70	-	-	-	-	-
Iron	mg/kg	20500	-	18800	-	28800	-	11200	L	-	-	-	-
Lead	mg/kg	67.40	-	33.50	-	48.50	-	18.60	-	-	-	-	-
Magnesium	mg/kg	9070	-	6910	-	8630	-	1740	-	-	-	-	-
Manganese	mg/kg	728	-	516	-	502	-	849	-	-	-	-	-
Mercury	mg/kg	0.12	K	0.12	K	0.13	K	0.12	K	-	-	-	-
Nickel	mg/kg	16.70	UJ	15.70	UJ	19.10	UJ	15.10	UJ	-	-	-	-
Potassium	mg/kg	1970	-	1150	-	1270	-	1380	-	-	-	-	-
Selenium	mg/kg	0.94	UL	0.95	UL	1	UL	0.99	UL	-	-	-	-
Silver	mg/kg	2.40	UL	2.40	UL	2.50	UL	2.50	UL	-	-	-	-
Sodium	mg/kg	227	-	215	-	198	-	149	-	-	-	-	-
Thallium	mg/kg	0.47	U	0.48	U	0.50	U	0.50	U	-	-	-	-
Vanadium	mg/kg	39	-	33.70	-	53.70	-	26.90	-	-	-	-	-
Zinc	mg/kg	130	-	77.20	-	70.80	-	51.80	-	-	-	-	-

TPH

Total Petroleum Hydrocarbons mg/kg 31.10 211 126 84.40 17.40

Appendix H Data Summary Table ILANG, 182 Airlift Wing, GPRA, Peoria, Illinois

LOCATOR: SB3 SB4 SB5 SB4 SB4
 SAMPLE ID: GPA-S1-SB3-SS8-10 GPA-S1-SB3-SS10-12 GPA-S1-SB4-SS0-2 GPA-S1-SB4-SS2-4 GPA-S1-SB5-SS12-14 GPA-S1-SB4-SS4-6
 COLLECTION DATE: 12/10/92 12/10/92 12/12/92 12/12/92 12/12/92

UNITS:		RESULT	QUAL	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL
Volatiles by 8240		ug/kg											
1,1,1-Trichloroethane	5	U	6	U	6	U	6	U	6	U	6	U	U
1,1,2,2-Tetrachloroethane	11	U	13	U	12	U	12	U	12	U	12	U	U
1,1,2-Trichloroethane	5	U	6	U	6	U	6	U	6	U	6	U	U
1,1-Dichloroethane	5	U	6	U	6	U	6	U	6	U	6	U	U
1,1-Dichloroethylene	5	U	6	U	6	U	6	U	6	U	6	U	U
1,2-Dichloroethane	5	U	6	U	6	U	6	U	6	U	6	U	U
1,2-Dichloroethylene	5	U	6	U	6	U	6	U	6	U	6	U	U
1,2-Dichloropropane	5	U	6	U	6	U	6	U	6	U	6	U	U
1,3-cis-Dichloropropylene	5	U	6	U	6	U	6	U	6	U	6	U	U
1,3-trans-Dichloropropylene	5	U	6	U	6	U	6	U	6	U	6	U	U
2-Butanone	11	U	13	U	12	U	3	U	11	U	7	U	J
2-Hexanone	16	U	19	U	18	U	18	U	17	U	18	U	U
2-Propanone	35	B	30	B	47	B	66	B	11	U	100	B	U
4-Methyl-2-pentanone	16	U	19	U	18	U	18	U	17	U	18	U	U
Benzene	5	U	6	U	6	U	6	U	6	U	6	U	U
Bromodichloromethane	5	U	6	U	6	U	6	U	6	U	6	U	U
Bromoform	11	U	13	U	12	U	12	U	11	U	12	U	U
Carbon Disulfide	5	U	6	U	6	U	6	U	6	U	6	U	U
Carbon Tetrachloride	5	U	6	U	6	U	6	U	6	U	6	U	U
Chlorobenzene	5	U	6	U	6	U	6	U	6	U	6	U	U
Chloroethane	11	U	13	U	12	U	12	U	11	U	12	U	U
Chloroform	5	U	1	B	2	B	2	B	6	U	2	B	U
Dibromochloromethane	5	U	6	U	6	U	6	U	6	U	6	U	U
Ethylbenzene	5	U	6	U	6	U	6	U	6	U	6	U	U
Methyl bromide	5	U	6	U	6	U	6	U	6	U	6	U	U
Methyl chloride	11	U	13	U	12	U	12	U	11	U	12	U	U
Methylene chloride	29	B	42	B	45	B	54	B	21	B	38	B	U
Styrene	5	U	6	U	6	U	6	U	6	U	6	U	U
Tetrachloroethylene	5	U	6	U	6	U	6	U	6	U	6	U	U
Toluene	5	U	6	U	6	U	3	B	6	U	6	U	U
Trichloroethylene	5	U	6	U	6	U	6	U	6	U	6	U	U
Vinyl Acetate	11	U	13	U	12	U	12	U	11	U	12	U	U
Vinyl chloride	11	U	13	U	12	U	12	U	11	U	12	U	U
Xylenes (TOTAL)	5	U	6	U	6	U	6	U	6	U	6	U	U
Semi-volatiles by 8070													
1,2,4-Trichlorobenzene	350	U	410	U	400	U	400	U	380	U	390	U	U

Appendix H Data Summary Table ILANG, 182 Airlift Wing, GPRA, Peoria, Illinois

LOCATOR: SB3												
SAMPLE ID: GPA-S1-SB3-SS8-10												
COLLECTION DATE: 12/10/92												
SB3												
GPA-S1-SB3-SS10-12												
SB4												
GPA-S1-SB4-SS0-2												
SB4												
GPA-S1-SB4-SS2-4												
SB5												
GPA-S1-SB5-SS12-14												
SB4												
GPA-S1-SB4-SS4-6												
SB4												
GPA-S1-SB4-SS4-6												
12/12/92												
12/12/92												
12/12/92												
12/12/92												
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Appendix H Data Summary Table ILANG, 182 Airlift Wing, GPRA, Peoria, Illinois

LOCATOR:		SB3		SB3		SB4		SB4		SB5		SB4		SB4	
SAMPLE ID:		GPA-S1-SB3-SS8-10		GPA-S1-SB3-SS10-12		GPA-S1-SB4-SS0-2		GPA-S1-SB4-SS2-4		GPA-S1-SB5-SS12-14		GPA-S1-SB4-SS4-6		GPA-S1-SB4-SS4-6	
COLLECTION DATE:		12/10/92		12/10/92		12/10/92		12/12/92		12/12/92		12/12/92		12/12/92	
UNITS:		RESULT	QUAL	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL
Butyl benzyl phthalate Chrysene Di-n-butyl phthalate Di-n-octyl phthalate Dibenzo(a,h)anthracene Dibenzofuran Diethyl phthalate Dimethyl phthalate Fluoranthene Fluorene Hexachlorobenzene Hexachlorobutadiene Hexachlorocyclopentadiene Hexachloroethane Indeno(1,2,3-c,d)pyrene Isophorone N-Nitrosodi-N-Propylamine N-Nitrosodiphenylamine Naphthalene Nitrobenzene Pentachlorophenol Phenanthrene Phenol Pyrene bis(2-Chloroethoxy)methane bis(2-Chloroethyl) ether bis(2-Chloroisopropyl)ether bis(2-Ethylhexyl)phthalate	ug/kg	350	U	410	U	400	U	400	U	380	U	390	U		
	ug/kg	350	U	410	U	1700	U	2400	U	1300	U	390	U		
	ug/kg	350	U	410	U	96	J	64	J	380	U	390	U		
	ug/kg	350	U	410	U	130	J	120	J	380	U	390	U		
	ug/kg	350	U	410	U	150	J	230	J	200	U	390	U		
	ug/kg	350	U	410	U	150	U	370	U	79	U	390	U		
	ug/kg	350	U	410	U	400	U	400	U	380	U	390	U		
	ug/kg	350	U	410	U	400	U	400	U	380	U	390	U		
	ug/kg	350	U	410	U	3600	U	5500	U	2600	U	270	U		
	ug/kg	350	U	410	U	77	U	170	U	110	U	390	U		
	ug/kg	350	U	410	U	400	U	400	U	380	U	390	U		
	ug/kg	350	U	410	U	400	U	400	U	380	U	390	U		
	ug/kg	350	U	410	U	400	U	400	U	380	U	390	U		
	ug/kg	350	U	410	U	400	U	400	U	380	U	390	U		
	ug/kg	350	U	410	U	730	U	810	U	590	U	390	U		
	ug/kg	350	U	410	U	400	U	400	U	380	U	390	U		
	ug/kg	350	U	410	U	400	U	400	U	380	U	390	U		
	ug/kg	350	U	410	U	400	U	400	U	380	U	390	U		
	ug/kg	350	U	410	U	64	U	140	U	380	U	390	U		
	ug/kg	350	U	410	U	400	U	400	U	380	U	390	U		
	ug/kg	690	U	830	U	800	U	800	U	750	U	790	U		
ug/kg	350	U	410	U	2500	U	4400	U	1500	U	180	U			
ug/kg	350	U	410	U	400	U	400	U	380	U	390	U			
ug/kg	350	U	410	U	2800	U	4300	J	2000	J	220	J			
ug/kg	350	U	410	U	400	U	400	U	380	U	390	U			
ug/kg	690	U	830	U	800	U	800	U	750	U	790	U			
ug/kg	350	U	410	U	400	U	400	U	380	U	390	U			
ug/kg	350	U	71	J	160	J	160	J	73	B	150	J			
Metals															
Aluminum	mg/kg	-	-	-	-	9080	UL	-	-	10100	UL	13800	UL		
Antimony	mg/kg	-	-	-	-	13.90	K	-	-	13.10	K	13.70	K		
Arsenic	mg/kg	-	-	-	-	8	-	-	-	6.30	-	6.40	-		
Barium	mg/kg	-	-	-	-	207	-	-	-	70.90	-	188	-		
Beryllium	mg/kg	-	-	-	-	0.82	U	-	-	0.94	U	0.89	U		
Cadmium	mg/kg	-	-	-	-	1.20	U	-	-	1.10	U	1.20	U		

Appendix H Data Summary Table
ILANG, 182 Airlift Wing, GPRA, Peoria, Illinois

LOCATOR: SB3 SB4 SB5 SB4 SB4
SAMPLE ID: GPA-S1-SB3-SS8-10 GPA-S1-SB3-SS10-12 GPA-S1-SB4-SS0-2 GPA-S1-SB4-SS2-4 GPA-S1-SB5-SS12-14 GPA-S1-SB4-SS4-6
COLLECTION DATE: 12/10/92 12/10/92 12/12/92 12/12/92 12/12/92 12/12/92

UNITS:	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL
Calcium	mg/kg	-	4170	-	51700	6120	19.80	0	15.50	18400
Chromium	mg/kg	-	12	-	16.30	19.80	10.70	0	15.50	18400
Cobalt	mg/kg	-	10.10	0	8.80	10.70	19.10	0	15.50	18400
Copper	mg/kg	-	9.10	-	19.10	15.50	28900	33	3440	711
Iron	mg/kg	-	13900	L	28900	18400	19	3440	711	0.12
Lead	mg/kg	-	29.10	-	19	33	21500	K	UJ	UJ
Magnesium	mg/kg	-	2260	-	21500	3440	607	K	UJ	UJ
Manganese	mg/kg	-	1270	K	607	711	0.11	UJ	UJ	UJ
Mercury	mg/kg	-	0.12	UJ	0.11	0.12	18.40	U	U	U
Nickel	mg/kg	-	11.90	-	18.40	17.10	1120	U	U	U
Potassium	mg/kg	-	1180	U	1120	1170	0.92	UL	UL	UL
Selenium	mg/kg	-	0.97	UL	0.92	0.96	2.30	UL	UL	UL
Silver	mg/kg	-	2.40	UL	2.30	2.40	247	0	0	0
Sodium	mg/kg	-	181	0	247	302	0.46	U	U	U
Thallium	mg/kg	-	0.49	U	0.46	0.48	32.20	U	U	U
Vanadium	mg/kg	-	34.50	-	32.20	37.30	86.60	-	-	-
Zinc	mg/kg	-	71.30	-	86.60	83.80	-	-	-	-
TPH	mg/kg	42	376	14800	4860	295	-	-	-	-
Total Petroleum Hydrocarbons	mg/kg	42	94.50	14800	4860	295	-	-	-	-

Appendix H Data Summary Table
ILANG, 182 Airlift Wing, GPRA, Peoria, Illinois

LOCATOR: SB4 SB5 SB5 SB5 SB5 SB5
SAMPLE ID: GPA-S1-SB4-SS6-8 GPA-S1-SB5-SS0-2 GPA-S1-SB5-SS2-4 GPA-S1-SB5-SS4-6 GPA-S1-SB5-SS6-8 GPA-S1-SB5-SS8-10
COLLECTION DATE: 12/12/92 12/12/92 12/12/92 12/12/92 12/12/92 12/12/92

UNITS:		RESULT	QUAL	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL
Volatiles by 8240													
1,1,1-Trichloroethane	ug/kg	7	U	6	U	6	U	6	U	6	U	6	U
1,1,2,2-Tetrachloroethane	ug/kg	13	U	12	U	12	U	12	U	12	U	12	U
1,1,2-Trichloroethane	ug/kg	7	U	6	U	6	U	6	U	6	U	6	U
1,1-Dichloroethane	ug/kg	7	U	6	U	6	U	6	U	6	U	6	U
1,1-Dichloroethylene	ug/kg	7	U	6	U	6	U	6	U	6	U	6	U
1,2-Dichloroethane	ug/kg	7	U	6	U	6	U	6	U	6	U	6	U
1,2-Dichloroethylene	ug/kg	7	U	6	U	6	U	6	U	6	U	6	U
1,2-Dichloropropane	ug/kg	7	U	6	U	6	U	6	U	6	U	6	U
1,3-cis-Dichloropropylene	ug/kg	7	U	6	U	6	U	6	U	6	U	6	U
1,3-trans-Dichloropropylene	ug/kg	7	U	6	U	6	U	6	U	6	U	6	U
2-Butanone	ug/kg	11	J	12	U	12	U	4	J	12	U	12	U
2-Hexanone	ug/kg	20	U	18	U	18	U	18	U	18	U	19	U
2-Propanone	ug/kg	72	B	38	B	39	B	45	B	18	U	8	B
4-Methyl-2-pentanone	ug/kg	20	U	18	U	18	U	18	U	18	U	19	U
Benzene	ug/kg	7	U	6	U	6	U	6	U	6	U	6	U
Bromodichloromethane	ug/kg	7	U	6	U	6	U	6	U	6	U	6	U
Bromoform	ug/kg	13	U	12	U	12	U	12	U	12	U	12	U
Carbon Disulfide	ug/kg	7	U	6	U	6	U	6	U	6	U	6	U
Carbon Tetrachloride	ug/kg	7	U	6	U	6	U	6	U	6	U	6	U
Chlorobenzene	ug/kg	7	U	6	U	6	U	6	U	6	U	6	U
Chloroethane	ug/kg	13	U	12	U	12	U	12	U	12	U	12	U
Chloroform	ug/kg	2	B	6	U	1	B	2	B	1	B	6	U
Dibromochloromethane	ug/kg	7	U	6	U	6	U	6	U	6	U	6	U
Ethylbenzene	ug/kg	7	U	6	U	6	U	6	U	6	U	6	U
Methyl bromide	ug/kg	7	U	6	U	6	U	6	U	6	U	6	U
Methyl chloride	ug/kg	13	U	12	U	12	U	12	U	12	U	12	U
Methylene chloride	ug/kg	28	B	34	B	32	B	33	B	25	B	26	B
Styrene	ug/kg	7	U	6	U	6	U	6	U	6	U	6	U
Tetrachloroethylene	ug/kg	7	U	6	U	6	U	6	U	6	U	6	U
Toluene	ug/kg	7	U	6	U	6	U	6	U	6	U	6	U
Trichloroethylene	ug/kg	7	U	6	U	6	U	6	U	6	U	6	U
Vinyl Acetate	ug/kg	13	U	12	U	12	U	12	U	12	U	12	U
Vinyl chloride	ug/kg	13	U	12	U	12	U	12	U	12	U	12	U
Xylenes (TOTAL)	ug/kg	7	U	6	U	6	U	6	U	6	U	6	U
Semi-volatiles by 8070													
1,2,4-Trichlorobenzene	ug/kg	430	U	400	U	400	U	420	U	400	U	410	U

Appendix H Data Summary Table ILANG, 182 Airlift Wing, GPRA, Peoria, Illinois

LOCATOR:		SB4		SB5		SB5		SB5		SB5		SB5	
SAMPLE ID:		GPA-S1-SB4-SS6-8		GPA-S1-SB5-SS0-2		GPA-S1-SB5-SS2-4		GPA-S1-SB5-SS4-6		GPA-S1-SB5-SS6-8		GPA-S1-SB5-SS8-10	
COLLECTION DATE:		12/12/92		12/12/92		12/12/92		12/12/92		12/12/92		12/12/92	
UNITS:		RESULT	QUAL	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL
1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 2,4,5-Trichlorophenol 2,4,6-Trichlorophenol 2,4-Dichlorophenol 2,4-Dimethylphenol 2,4-Dinitrophenol 2,4-Dinitrotoluene 2,6-Dinitrotoluene 2-Chloronaphthalene 2-Chlorophenol 2-Methyl-4,6-Dinitrophenol 2-Methylnaphthalene 2-Methylphenol 2-Nitroaniline 2-Nitrophenol 3,3'-Dichlorobenzidine 3-Nitroaniline 4-Bromophenyl phenyl ether 4-Chloro-3-methyl phenol 4-Chloroaniline 4-Chlorophenyl phenyl ether 4-Methylphenol 4-Nitrophenol Acenaphthene Acenaphthylene Anthracene Benzo(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(ghi)perylene Benzo(k)fluoranthene Benzoic Acid Benzyl Alcohol	ug/kg	430	U	400	U	400	U	420	U	400	U	410	U
	ug/kg	430	U	400	U	400	U	420	U	400	U	410	U
	ug/kg	430	U	400	U	400	U	420	U	400	U	410	U
	ug/kg	860	U	800	U	800	U	830	U	790	U	810	U
	ug/kg	860	U	800	U	800	U	830	U	790	U	810	U
	ug/kg	430	U	400	U	400	U	420	U	400	U	410	U
	ug/kg	430	U	400	U	400	U	420	U	400	U	410	U
	ug/kg	1700	U	1600	U	1600	U	1600	U	1600	U	1600	U
	ug/kg	430	U	400	U	400	U	420	U	400	U	410	U
	ug/kg	430	U	400	U	400	U	420	U	400	U	410	U
	ug/kg	430	U	400	U	400	U	420	U	400	U	410	U
	ug/kg	430	U	400	U	400	U	420	U	400	U	410	U
	ug/kg	1300	U	1200	U	1200	U	1200	U	1200	U	1200	U
	ug/kg	430	U	400	U	400	U	420	U	400	U	410	U
	ug/kg	430	U	400	U	400	U	420	U	400	U	410	U
	ug/kg	430	U	400	U	400	U	420	U	400	U	410	U
	ug/kg	430	U	400	U	400	U	420	U	400	U	410	U
	ug/kg	860	U	800	U	800	U	830	U	790	U	810	U
	ug/kg	430	U	400	U	400	U	420	U	400	U	410	U
	ug/kg	430	U	400	U	400	U	420	U	400	U	410	U
	ug/kg	430	U	400	U	400	U	420	U	400	U	410	U
	ug/kg	430	U	400	U	400	U	420	U	400	U	410	U
	ug/kg	860	U	800	U	800	U	830	U	790	U	810	U
	ug/kg	430	U	400	U	400	U	420	U	400	U	410	U
	ug/kg	430	U	400	U	400	U	420	U	400	U	410	U
	ug/kg	430	U	400	U	400	U	420	U	400	U	410	U
	ug/kg	430	U	400	U	400	U	420	U	400	U	410	U
	ug/kg	210	U	120	U	400	U	420	U	400	U	410	U
	ug/kg	280	U	500	U	400	U	420	U	400	U	410	U
	ug/kg	650	U	1100	U	400	U	420	U	400	U	410	U
	ug/kg	410	U	400	U	400	U	420	U	400	U	410	U
	ug/kg	650	U	1100	U	400	U	420	U	400	U	410	U
ug/kg	4300	U	4000	U	4000	U	4200	U	4000	U	4100	U	
ug/kg	430	U	400	U	400	U	420	U	400	U	410	U	

Appendix H Data Summary Table
ILANG, 182 Airlift Wing, GPRA, Peoria, Illinois

LOCATOR:		SB4		SB5		SB5		SB5		SB5		SB5		SB5	
SAMPLE ID:		GPA-S1-SB4-SS6-8		GPA-S1-SB5-SS0-2		GPA-S1-SB5-SS2-4		GPA-S1-SB5-SS4-6		GPA-S1-SB5-SS6-8		GPA-S1-SB5-SS8-10			
COLLECTION DATE:		12/12/92		12/12/92		12/12/92		12/12/92		12/12/92		12/12/92		12/12/92	
UNITS:		RESULT	QUAL	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL
Butyl benzyl phthalate	ug/kg	120	J	400	U	400	U	420	U	400	U	410	U		
Chrysene	ug/kg	330		670		400		420		400		410			
Di-n-butyl phthalate	ug/kg	430	U	400	U	400	U	420	U	400	U	410	U		
Di-n-octyl phthalate	ug/kg	430	U	400	U	400	U	420	U	400	U	410	U		
Dibenzo(a,h)anthracene	ug/kg	430	U	66		400		420		400		410			
Dibenzofuran	ug/kg	430	U	230		400		420		400		410			
Diethyl phthalate	ug/kg	430	U	400	U	400	U	420	U	400	U	410	U		
Dimethyl phthalate	ug/kg	430	U	400	U	400	U	420	U	400	U	410	U		
Fluoranthene	ug/kg	490		1300		400		420		400		410			
Fluorene	ug/kg	430	U	400	U	400	U	420	U	400	U	410	U		
Hexachlorobenzene	ug/kg	430	U	400	U	400	U	420	U	400	U	410	U		
Hexachlorobutadiene	ug/kg	430	U	400	U	400	U	420	U	400	U	410	U		
Hexachlorocyclopentadiene	ug/kg	430	U	400	U	400	U	420	U	400	U	410	U		
Hexachloroethane	ug/kg	430	U	400	U	400	U	420	U	400	U	410	U		
Indeno(1,2,3-c,d)pyrene	ug/kg	330		400		400		420		400		410			
Isophorone	ug/kg	430	U	400	U	400	U	420	U	400	U	410	U		
N-Nitrosodi-N-Propylamine	ug/kg	430	U	400	U	400	U	420	U	400	U	410	U		
N-Nitrosodiphenylamine	ug/kg	430	U	400	U	400	U	420	U	400	U	410	U		
Naphthalene	ug/kg	430	U	400	U	400	U	420	U	400	U	410	U		
Nitrobenzene	ug/kg	430	U	400	U	400	U	420	U	400	U	410	U		
Pentachlorophenol	ug/kg	860	U	800	U	800	U	830	U	790	U	810	U		
Phenanthrene	ug/kg	220		680		400		420		400		410			
Phenol	ug/kg	430	U	400	U	400	U	420	U	400	U	410	U		
Pyrene	ug/kg	430	J	1200		400		420		400		410			
bis(2-Chloroethoxy)methane	ug/kg	430	U	400	U	400	U	420	U	400	U	410	U		
bis(2-Chloroethyl) ether	ug/kg	860	U	800	U	800	U	830	U	790	U	810	U		
bis(2-Chloroisopropyl)ether	ug/kg	430	U	400	U	400	U	420	U	400	U	410	U		
bis(2-Ethylhexyl)phthalate	ug/kg	160	J	90	B	44	B	420	U	53	B	410	U		
Metals															
Aluminum	mg/kg	2750		18600		-		11100		-		-			
Antimony	mg/kg	14.90	UL	14	UL	-		13.50	UL	-		-			
Arsenic	mg/kg	8.70	K	7.90	K	-		5	K	-		-			
Barium	mg/kg	29.60	U	140		-		124		-		-			
Beryllium	mg/kg	0.52	U	0.87	U	-		0.49	U	-		-			
Cadmium	mg/kg	1.80		1.20	U	-		1.20	U	-		-			

Appendix H Data Summary Table
ILANG, 182 Airlift Wing, GPRA, Peoria, Illinois

LOCATOR:		SB4		SB5		SB5		SB5		SB5		SB5	
SAMPLE ID:		GPA-S1-SB4-SS6-8		GPA-S1-SB5-SS0-2		GPA-S1-SB5-SS2-4		GPA-S1-SB5-SS4-6		GPA-S1-SB5-SS6-8		GPA-S1-SB5-SS8-10	
COLLECTION DATE:		12/12/92		12/12/92		12/12/92		12/12/92		12/12/92		12/12/92	
UNITS:		RESULT	QUAL	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL
Calcium	mg/kg	158000		11200		-		1860		-		-	
Chromium	mg/kg	9.90		21.10		-		15.50		-		-	
Cobalt	mg/kg	2.90	U	9.40		-		8.70	()	-		-	
Copper	mg/kg	19.70		20.40		-		13.40		-		-	
Iron	mg/kg	10700	L	21800		-		13600		-		-	
Lead	mg/kg	31.50		25		-		14.70		-		-	
Magnesium	mg/kg	78200		7830		-		2080		-		-	
Manganese	mg/kg	348	K	612	K	-		465	K	-		-	
Mercury	mg/kg	0.13	UJ	0.12	UJ	-		0.12	UJ	-		-	
Nickel	mg/kg	10.50	U	18.20		-		13.30		-		-	
Potassium	mg/kg	1270	U	1770		-		1150	U	-		-	
Selenium	mg/kg	1	UL	0.98	U	-		0.95	UL	-		-	
Silver	mg/kg	8.90		2.40	UL	-		2.40	UL	-		-	
Sodium	mg/kg	323	()	308	()	-		156	()	-		-	
Thallium	mg/kg	0.52	U	0.49	U	-		0.47	U	-		-	
Vanadium	mg/kg	9.10	()	47.20		-		26.70		-		-	
Zinc	mg/kg	112		61.60		-		44.90		-		-	
TPH													
Total Petroleum Hydrocarbons	mg/kg	434		25.70		23		38.70		23.80		21.30	

Appendix H Data Summary Table
ILANG, 182 Airlift Wing, GPRA, Peoria, Illinois

LOCATOR: MW1 MW1
SAMPLE ID: GPA-S1-MW1-GW1 GPA-S1-MW1-GW2
COLLECTION DATE: 01/20/93 04/17/93

	UNITS:		RESULT		QUAL		RESULT		QUAL	
Volatiles by 8010										
1,1,1,2-Tetrachloroethane	ug/l	0.35	U	0.35	U	0.35	U	0.35	U	
1,1,1-Trichloroethane	ug/l	0.35	U	0.35	U	0.35	U	0.35	U	
1,1,2,2-Tetrachloroethane	ug/l	0.40	U	0.40	U	0.40	U	0.40	U	
1,1,2-Trichloroethane	ug/l	0.25	U	0.25	U	0.25	U	0.25	U	
1,1-Dichloroethane	ug/l	0.35	U	0.35	U	0.35	U	0.35	U	
1,1-Dichloroethylene	ug/l	0.35	U	0.35	U	0.35	U	0.35	U	
1,2,3-Trichloropropane	ug/l	0.35	U	0.35	U	0.35	U	0.35	U	
1,2-Dibromoethane	ug/l	-		0.35	U	0.35	U	0.35	U	
1,2-Dibromomethane	ug/l	0.35	U	0.35	U	-		-		
1,2-Dichlorobenzene	ug/l	0.30	U	0.30	U	0.30	U	0.30	U	
1,2-Dichloroethane	ug/l	0.25	U	0.25	U	0.25	U	0.25	U	
1,2-Dichloropropane	ug/l	0.30	U	0.30	U	0.30	U	0.30	U	
1,2-trans-Dichloroethylene	ug/l	0.30	U	0.30	U	0.28	J	0.20	U	
1,3-Dichlorobenzene	ug/l	0.20	U	0.20	U	0.30	U	0.30	U	
1,3-cis-Dichloropropylene	ug/l	0.30	U	0.30	U	0.25	U	0.25	U	
1,3-trans-Dichloropropylene	ug/l	0.25	U	0.25	U	0.20	U	0.20	U	
1,4-Dichlorobenzene	ug/l	0.20	U	0.20	U	0.40	U	0.40	U	
2-Chloroethylvinyl ether	ug/l	0.40	U	0.40	U	0.25	U	0.25	U	
2-Chlorotoluene	ug/l	0.25	U	0.25	U	0.35	U	0.35	U	
4-Chlorotoluene	ug/l	0.35	U	0.35	U	0.85	U	0.85	U	
Bromobenzene	ug/l	0.85	U	0.85	U	0.25	U	0.25	U	
Bromochloromethane	ug/l	0.25	U	0.25	U	0.40	U	0.40	U	
Bromodichloromethane	ug/l	0.40	U	0.40	U	0.50	U	0.50	U	
Bromoform	ug/l	0.50	U	0.50	U	0.35	U	0.35	U	
Carbon Tetrachloride	ug/l	0.35	U	0.35	U	0.35	U	0.35	U	
Chlorobenzene	ug/l	0.35	U	0.35	U	0.50	U	0.50	U	
Chloroethane	ug/l	0.50	U	0.50	U	0.34	B	0.35	U	
Chloroform	ug/l	0.34	B	0.34	B	0.30	U	0.30	U	
Dibromochloromethane	ug/l	0.30	U	0.30	U	0.40	U	0.40	U	
Dibromomethane	ug/l	0.40	U	0.40	U	0.45	U	0.45	U	
Methyl bromide	ug/l	0.50	U	0.50	U	0.18	B	0.22	B	
Methyl chloride	ug/l	0.50	U	0.50	U	0.30	U	0.30	U	
Methylene chloride	ug/l	0.18	B	0.18	B	0.30	U	0.30	U	
Tetrachloroethylene	ug/l	0.30	U	0.30	U	0.30	U	0.30	U	
Trichloroethylene	ug/l	0.30	U	0.30	U	0.30	U	0.30	U	

Appendix H Data Summary Table
ILANG, 182 Airlift Wing, GPRA, Peoria, Illinois

LOCATOR: MW1 MW1
SAMPLE ID: GPA-S1-MW1-GW1 GPA-S1-MW1-GW2
COLLECTION DATE: 01/20/93 04/17/93

	UNITS:	RESULT	QUAL	RESULT	QUAL
Vinyl chloride	ug/l	0.55	U	1.20	J
Volatiles by 8020					
1,2-Dichlorobenzene	ug/l	0.58	U	0.15	U
1,2-Dimethylbenzene	ug/l	0.20	U	0.20	U
1,3-Dichlorobenzene	ug/l	0.32	U	0.20	U
1,3/1,4-Dimethylbenzene	ug/l	0.50	U	0.50	U
1,4-Dichlorobenzene	ug/l	0.15	U	0.15	U
Benzene	ug/l	0.35	U	0.35	U
Chlorobenzene	ug/l	0.25	U	0.25	U
Ethylbenzene	ug/l	0.20	U	0.20	U
Methyl-t-Butyl Ether	ug/l	5	U	5	U
Styrene	ug/l	0.25	U	0.25	U
Toluene	ug/l	0.25	U	0.81	B
Semi-volatiles by 8070					
1,2,4-Trichlorobenzene	ug/l	10	U	10	U
1,2-Dichlorobenzene	ug/l	10	U	10	U
1,3-Dichlorobenzene	ug/l	10	U	10	U
1,4-Dichlorobenzene	ug/l	10	U	10	U
2,4,5-Trichlorophenol	ug/l	20	U	20	U
2,4,6-Trichlorophenol	ug/l	20	U	20	U
2,4-Dichlorophenol	ug/l	10	U	10	U
2,4-Dimethylphenol	ug/l	10	U	10	U
2,4-Dinitrophenol	ug/l	40	U	40	U
2,4-Dinitrotoluene	ug/l	10	U	10	U
2,6-Dinitrotoluene	ug/l	10	U	10	U
2-Chloronaphthalene	ug/l	10	U	10	U
2-Chlorophenol	ug/l	10	U	10	U
2-Methyl-4,6-Dinitrophenol	ug/l	30	U	30	U
2-Methylnaphthalene	ug/l	10	U	10	U
2-Methylphenol	ug/l	10	U	10	U
2-Nitroaniline	ug/l	10	U	10	U
2-Nitrophenol	ug/l	10	U	10	U
3,3'-Dichlorobenzidine	ug/l	10	U	10	U
3-Nitroaniline	ug/l	20	U	20	U

Appendix H Data Summary Table
ILANG, 182 Airlift Wing, GPRA, Peoria, Illinois

LOCATOR: MW1
SAMPLE ID: GPA-S1-MW1-GW1 GPA-S1-MW1-GW2
COLLECTION DATE: 01/20/93 04/17/93

	UNITS:		RESULT		QUAL		RESULT		QUAL	
4-Bromophenyl phenyl ether	ug/l		10		U		10		U	
4-Chloro-3-methyl phenol	ug/l		10		U		10		U	
4-Chloroaniline	ug/l		10		U		10		U	
4-Chlorophenyl phenyl ether	ug/l		10		U		10		U	
4-Methylphenol	ug/l		10		U		10		U	
4-Nitroaniline	ug/l		10		U		10		U	
4-Nitrophenol	ug/l		10		U		10		U	
Acenaphthene	ug/l		10		U		10		U	
Acenaphthylene	ug/l		10		U		10		U	
Anthracene	ug/l		10		U		10		U	
Benzo(a)anthracene	ug/l		10		U		10		U	
Benzo(a)pyrene	ug/l		10		U		10		U	
Benzo(b)fluoranthene	ug/l		10		U		10		U	
Benzo(ghi)perylene	ug/l		10		U		10		U	
Benzo(k)fluoranthene	ug/l		10		U		10		U	
Benzoic Acid	ug/l		17		J		10		R	
Benzyl Alcohol	ug/l		10		U		10		U	
Butyl benzyl phthalate	ug/l		10		U		1		U	
Chrysene	ug/l		10		U		10		U	
Di-n-butyl phthalate	ug/l		10		U		10		U	
Di-n-octyl phthalate	ug/l		10		U		10		U	
Dibenzo(a,h)anthracene	ug/l		10		U		10		U	
Dibenzofuran	ug/l		10		U		10		U	
Diethyl phthalate	ug/l		10		U		10		U	
Dimethyl phthalate	ug/l		10		U		10		U	
Fluoranthene	ug/l		10		U		10		U	
Fluorene	ug/l		10		U		10		U	
Hexachlorobenzene	ug/l		10		U		10		U	
Hexachlorobutadiene	ug/l		10		U		10		U	
Hexachlorocyclopentadiene	ug/l		10		U		10		U	
Hexachloroethane	ug/l		10		U		10		U	
Indeno(1,2,3-c,d)pyrene	ug/l		10		U		10		U	
Isophorone	ug/l		10		U		10		U	
N-Nitrosodi-N-Propylamine	ug/l		10		U		10		U	
N-Nitrosodiphenylamine	ug/l		10		U		10		U	
Naphthalene	ug/l		10		U		10		U	

Appendix H Data Summary Table
ILANG, 182 Airlift Wing, GPRA, Peoria, Illinois

LOCATOR: MW1 MW1
SAMPLE ID: GPA-S1-MW1-GW1 GPA-S1-MW1-GW2
COLLECTION DATE: 01/20/93 04/17/93

	UNITS:	RESULT	QUAL	RESULT	QUAL
Nitrobenzene	ug/l	10	U	10	U
Pentachlorophenol	ug/l	20	U	20	U
Phenanthrene	ug/l	10	U	10	U
Phenol	ug/l	10	U	10	U
Pyrene	ug/l	10	U	10	U
bis(2-Chloroethoxy)methane	ug/l	10	U	10	U
bis(2-Chloroethyl) ether	ug/l	20	U	20	U
bis(2-Chloroisopropyl)ether	ug/l	10	U	10	U
bis(2-Ethylhexyl)phthalate	ug/l	10	U	10	U
Metals					
Aluminum	ug/l	25500		1730	J
Aluminum, Dissolved	ug/l	72	(B)	65.60	(B)
Antimony	ug/l	52	U	36	U
Antimony, Dissolved	ug/l	52	U	36	U
Arsenic	ug/l	3	U	3	U
Arsenic, Dissolved	ug/l	3	U	3	U
Barium	ug/l	391		161	(B)
Barium, Dissolved	ug/l	146	(B)	162	(B)
Beryllium	ug/l	1.90	()	1	U
Beryllium, Dissolved	ug/l	1	U	1	U
Cadmium	ug/l	5	U	5	U
Cadmium, Dissolved	ug/l	5	U	5	U
Calcium	ug/l	177000	B	151000	B
Calcium, Dissolved	ug/l	125000	B	124000	B
Chromium	ug/l	32		8	U
Chromium, Dissolved	ug/l	6	U	8	U
Cobalt	ug/l	12	()	8	U
Cobalt, Dissolved	ug/l	9	U	8	U
Copper	ug/l	18.70	(B)	7	(B)
Copper, Dissolved	ug/l	4	U	4	U
Iron	ug/l	28200	K	2010	J
Iron, Dissolved	ug/l	147		41	U
Lead	ug/l	13	L	3	B
Lead, Dissolved	ug/l	2	UL	2	UL
Magnesium	ug/l	91900	B	76100	B

Appendix H Data Summary Table
ILANG, 182 Airlift Wing, GPRA, Peoria, Illinois

LOCATOR: MW1
SAMPLE ID: GPA-S1-MW1-GW1 GPA-S1-MW1-GW2
COLLECTION DATE: 01/20/93 04/17/93

	UNITS:	RESULT	QUAL	RESULT	QUAL
Magnesium, Dissolved	ug/l	57600	B	58000	B
Manganese	ug/l	1430	L	1410	
Manganese, Dissolved	ug/l	1130		1440	
Mercury	ug/l	0.20	U	0.20	U
Mercury, Dissolved	ug/l	0.20	U	0.47	
Nickel	ug/l	24	U	19.20	U
Nickel, Dissolved	ug/l	13	U	17	U
Potassium	ug/l	5770	B	1350	U
Potassium, Dissolved	ug/l	1440	U	1350	U
Selenium	ug/l	3	UL	3	U
Selenium, Dissolved	ug/l	4	UL	3	UL
Silver	ug/l	5	U	7	U
Silver, Dissolved	ug/l	5	U	7	U
Sodium	ug/l	16900	B	17600	B
Sodium, Dissolved	ug/l	18000	B	17900	B
Thallium	ug/l	3	UL	4	U
Thallium, Dissolved	ug/l	30	UL	4	UL
Vanadium	ug/l	41.90	U	6	U
Vanadium, Dissolved	ug/l	4	U	6	U
Zinc	ug/l	78	B	40.80	B
Zinc, Dissolved	ug/l	5	U	10.40	UB
TPH					
Total Petroleum Hydrocarbons	mg/l	0.25	U	1.10	

Appendix H Data Summary Table
ILANG, 182 Airlift Wing, GPRA, Peoria, Illinois

LOCATOR:		SB1		SB2		SB2		SB3		SB3	
SAMPLE ID:		GPA-S2-SB1-SS0-2		GPA-S2-SB1-SS5-7		GPA-S2-SB2-SS0-2		GPA-S2-SB2-SS4-6		GPA-S2-SB3-SS0-2	
COLLECTION DATE:		12/08/92		12/08/92		12/08/92		12/08/92		12/08/92	
UNITS:		RESULT	QUAL	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL
Volatiles by 8240											
1,1,1-Trichloroethane	ug/kg	6	U	6	U	6	U	6	U	5	U
1,1,2,2-Tetrachloroethane	ug/kg	13	U	13	U	13	U	13	U	11	U
1,1,2-Trichloroethane	ug/kg	6	U	6	U	6	U	6	U	5	U
1,1-Dichloroethane	ug/kg	6	U	6	U	6	U	6	U	5	U
1,1-Dichloroethylene	ug/kg	6	U	6	U	6	U	6	U	5	U
1,2-Dichloroethane	ug/kg	6	U	6	U	6	U	6	U	5	U
1,2-Dichloroethylene	ug/kg	6	U	6	U	6	U	6	U	5	U
1,2-Dichloropropane	ug/kg	6	U	6	U	6	U	6	U	5	U
1,3-cis-Dichloropropylene	ug/kg	6	U	6	U	6	U	6	U	5	U
1,3-trans-Dichloropropylene	ug/kg	6	U	6	U	6	U	6	U	5	U
2-Butanone	ug/kg	13	U	13	U	13	U	13	U	5	U
2-Hexanone	ug/kg	19	U	19	U	19	U	19	U	11	U
2-Propanone	ug/kg	13	U	18	B	16	B	20	B	16	B
4-Methyl-2-pentanone	ug/kg	19	U	19	U	19	U	19	U	16	U
Benzene	ug/kg	6	U	6	U	6	U	6	U	5	U
Bromodichloromethane	ug/kg	6	U	6	U	6	U	6	U	5	U
Bromoform	ug/kg	13	U	13	U	13	U	13	U	11	U
Carbon Disulfide	ug/kg	6	U	6	U	6	U	6	U	5	U
Carbon Tetrachloride	ug/kg	6	U	6	U	6	U	6	U	5	U
Chlorobenzene	ug/kg	6	U	6	U	6	U	6	U	5	U
Chloroethane	ug/kg	13	U	13	U	13	U	13	U	11	U
Chloroform	ug/kg	6	U	6	U	6	U	6	U	5	U
Dibromochloromethane	ug/kg	6	U	6	U	6	U	6	U	5	U
Ethylbenzene	ug/kg	6	U	6	U	6	U	6	U	5	U
Methyl bromide	ug/kg	6	U	6	U	6	U	6	U	5	U
Methyl chloride	ug/kg	13	U	13	U	13	U	13	U	11	U
Methylene chloride	ug/kg	89	J	39	B	54	B	33	B	26	B
Styrene	ug/kg	6	U	6	U	6	U	6	U	5	U
Tetrachloroethylene	ug/kg	6	U	6	U	6	U	6	U	5	U
Toluene	ug/kg	6	U	6	U	6	U	6	U	5	U
Trichloroethylene	ug/kg	6	U	6	U	6	U	6	U	5	U
Vinyl Acetate	ug/kg	13	U	13	U	13	U	13	U	11	U
Vinyl chloride	ug/kg	13	U	13	U	13	U	13	U	11	U
Xylenes (TOTAL)	ug/kg	6	U	6	U	6	U	6	U	5	U
Semi-volatiles by 8070											
1,2,4-Trichlorobenzene	ug/kg	400	U	360	U	410	U	420	U	420	U
										400	U

Appendix H Data Summary Table
ILANG, 182 Airlift Wing, GPRA, Peoria, Illinois

LOCATOR:	SB1		SB2		SB3	
	GPA-S2-SB1-SS0-2		GPA-S2-SB2-SS0-2		GPA-S2-SB3-SS0-2	
	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL
UNITS:						
COLLECTION DATE: 12/08/92						
GPA-S2-SB1-SS5-7 12/08/92						
GPA-S2-SB2-SS4-6 12/08/92						
GPA-S2-SB3-SS5-7 12/08/94						
1,2-Dichlorobenzene	400	U	360	U	420	U
1,3-Dichlorobenzene	400	U	360	U	420	U
1,4-Dichlorobenzene	400	U	360	U	420	U
2,4,5-Trichlorophenol	800	U	720	U	850	U
2,4,6-Trichlorophenol	800	U	720	U	850	U
2,4-Dichlorophenol	400	U	360	U	420	U
2,4-Dimethylphenol	400	U	360	U	420	U
2,4-Dinitrophenol	1600	U	1400	U	1700	U
2,4-Dinitrotoluene	400	U	360	U	420	U
2,6-Dinitrotoluene	400	U	360	U	420	U
2-Chloronaphthalene	400	U	360	U	420	U
2-Chlorophenol	400	U	360	U	420	U
2-Methyl-4,6-Dinitrophenol	1200	U	1100	U	1300	U
2-Methylnaphthalene	400	U	360	U	420	U
2-Methylphenol	400	U	360	U	420	U
2-Nitroaniline	400	U	360	U	420	U
2-Nitrophenol	400	U	360	U	420	U
3,3'-Dichlorobenzidine	400	U	360	U	420	U
3-Nitroaniline	800	U	720	U	850	U
4-Bromophenyl phenyl ether	400	U	360	U	420	U
4-Chloro-3-methyl phenol	400	U	360	U	420	U
4-Chloroaniline	400	U	360	U	420	U
4-Chlorophenyl phenyl ether	400	U	360	U	420	U
4-Methylphenol	400	U	360	U	420	U
4-Nitroaniline	800	U	720	U	850	U
4-Nitrophenol	400	U	360	U	420	U
Acenaphthene	400	U	360	U	420	U
Acenaphthylene	400	U	360	U	420	U
Anthracene	400	U	360	U	420	U
Benzo(a)anthracene	400	U	360	U	420	U
Benzo(a)pyrene	400	U	360	U	420	U
Benzo(b)fluoranthene	400	U	48	U	420	U
Benzo(ghi)perylene	400	U	360	U	420	U
Benzo(k)fluoranthene	400	U	48	U	420	U
Benzoic Acid	4000	U	3600	U	4200	U
Benzyl Alcohol	400	U	360	U	420	U

Appendix H Data Summary Table
ILANG, 182 Airlift Wing, GPRA, Peoria, Illinois

LOCATOR:		SB1		SB1		SB2		SB2		SB3		SB3	
SAMPLE ID:		GPA-S2-SB1-SS0-2		GPA-S2-SB1-SS5-7		GPA-S2-SB1-SS0-2		GPA-S2-SB2-SS0-2		GPA-S2-SB3-SS0-2		GPA-S2-SB3-SS5-7	
COLLECTION DATE:		12/08/92		12/08/92		12/08/92		12/08/92		12/08/92		12/08/94	
UNITS:		RESULT	QUAL	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL
Butyl benzyl phthalate	ug/kg	400		360	U	410	U	420	U	420		400	U
Chrysene	ug/kg	400	U	360	U	210		420	U	420	U	400	U
Di-n-butyl phthalate	ug/kg	42	B	360	U	46	B	420	U	55	B	400	U
Di-n-octyl phthalate	ug/kg	400	U	360	U	410	U	420	U	420	U	400	U
Dibenzo(a,h)anthracene	ug/kg	400	U	360	U	410	U	420	U	420	U	400	U
Dibenzofuran	ug/kg	400	U	360	U	410	U	420	U	420	U	400	U
Diethyl phthalate	ug/kg	400	U	360	U	410	U	420	U	420	U	400	U
Dimethyl phthalate	ug/kg	400	U	360	U	410	U	420	U	420	U	400	U
Fluoranthene	ug/kg	400	U	360	U	360	U	420	U	420	U	400	U
Fluorene	ug/kg	400	U	360	U	410	U	420	U	420	U	400	U
Hexachlorobenzene	ug/kg	400	U	360	U	410	U	420	U	420	U	400	U
Hexachlorobutadiene	ug/kg	400	U	360	U	410	U	420	U	420	U	400	U
Hexachlorocyclopentadiene	ug/kg	400	U	360	U	410	U	420	U	420	U	400	U
Hexachloroethane	ug/kg	400	U	360	U	410	U	420	U	420	U	400	U
Indeno(1,2,3-c,d)pyrene	ug/kg	400	U	360	U	410	U	420	U	420	U	400	U
Isophorone	ug/kg	400	U	360	U	410	U	420	U	420	U	400	U
N-Nitrosodi-N-Propylamine	ug/kg	400	U	360	U	410	U	420	U	420	U	400	U
N-Nitrosodiphenylamine	ug/kg	400	U	360	U	410	U	420	U	420	U	400	U
Naphthalene	ug/kg	400	U	360	U	410	U	420	U	420	U	400	U
Nitrobenzene	ug/kg	400	U	360	U	410	U	420	U	420	U	400	U
Pentachlorophenol	ug/kg	800	U	720	U	830	U	850	U	850	U	800	U
Phenanthrene	ug/kg	400	U	49	U	160	U	420	U	420	U	400	U
Phenol	ug/kg	400	U	360	U	410	U	420	U	420	U	400	U
Pyrene	ug/kg	400	U	360	U	340	U	420	U	420	U	400	U
bis(2-Chloroethoxy)methane	ug/kg	400	U	360	U	410	U	420	U	420	U	400	U
bis(2-Chloroethyl) ether	ug/kg	800	U	720	U	830	U	850	U	850	U	800	U
bis(2-Chloroisopropyl)ether	ug/kg	400	U	360	U	410	U	420	U	420	U	400	U
bis(2-Ethylhexyl)phthalate	ug/kg	400	U	360	U	67	B	420	U	420	U	400	U
Metals													
Aluminum	mg/kg	14900		8540		15500		12800		2710		7160	
Antimony	mg/kg	14.70	UL	15.40	UL	15.20	UL	15.50	UL	13	UL	14.50	UL
Arsenic	mg/kg	9.20		9.40		9.60		9.60		12.50		9.10	
Barium	mg/kg	125		61.80		158		147		20.50		81.90	
Beryllium	mg/kg	0.76		0.51		0.96		0.80		0.31		0.51	
Cadmium	mg/kg	1.20	U	1.30	U	1.30	U	1.30	U	1.10	U	1.20	U

Appendix H Data Summary Table
ILANG, 182 Airlift Wing, GPRA, Peoria, Illinois

LOCATOR: SB1 SB2 SB3 SB3
SAMPLE ID: GPA-S2-SB1-SS0-2 GPA-S2-SB1-SS5-7 GPA-S2-SB2-SS0-2 GPA-S2-SB2-SS4-6 GPA-S2-SB3-SS0-2 GPA-S2-SB3-SS5-7
COLLECTION DATE: 12/08/92 12/08/92 12/08/92 12/08/92 12/08/92 12/08/94

UNITS:		RESULT	QUAL	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL
mg/kg		3600	J	46600	J	4520	J	2210	J	66500	J	37800	J
Calcium	mg/kg	20.70	J	14.30	J	20.60	J	16.20	J	6.50	J	13	J
Chromium	mg/kg	11	()	4.50	()	10.90	()	10.90	()	4.50	()	10.60	()
Cobalt	mg/kg	18.90		14		18.40		13.80		13.10		16.40	
Copper	mg/kg	22300	J	14800	J	25100	J	20600	J	11200	J	13300	J
Iron	mg/kg	18.10	K	9.40	K	25.10	K	13.70	K	15	K	8.40	K
Lead	mg/kg	3290	J	29000	J	3620	J	2890	J	37900	J	23500	J
Magnesium	mg/kg	541	J	186	J	931	J	922	J	459	J	534	J
Manganese	mg/kg	0.12	U	0.13	U	0.13	U	0.13	U	0.11	U	0.12	U
Mercury	mg/kg	17.60		14.40		18.90		15.30		10.40		21.50	
Nickel	mg/kg	1080	()	963	()	1050	()	1070		731	()	568	()
Potassium	mg/kg	0.98	UL	1	UL	1	UL	1	UL	0.87	UL	0.97	UL
Selenium	mg/kg	1.50	U	1.50	U	1.50	U	1.50	U	1.30	U	1.50	U
Silver	mg/kg	245	()B	257	()B	223	()B	185	()B	222	()B	224	()B
Sodium	mg/kg	0.49	UL	0.51	UL	0.51	UL	0.52	UL	0.43	UL	0.48	UL
Thallium	mg/kg	31.50		23.90		35.90		30.90		10.60		21.20	
Vanadium	mg/kg	63.90		38.40		68		52.30		50		39.20	
Zinc	mg/kg												
TPH													
Total Petroleum Hydrocarbons	mg/kg	22		14.40		32.90		6.30	U	18.10		6.30	U

Appendix H Data Summary Table
ILANG, 182 Airlift Wing, GPRA, Peoria, Illinois

LOCATOR: SB1 SB2
SAMPLE ID: GPA-S3A-SB1-SS0-2 GPA-S3A-SB1-SS5-7 GPA-S3A-SB2-SS03-04
COLLECTION DATE: 12/09/92 01/16/93

UNITS:		RESULT	QUAL	RESULT	QUAL	RESULT	QUAL
Volatiles by 8240	ug/kg	6	U	6	U	6	U
1,1,1-Trichloroethane	ug/kg	12	U	12	U	12	U
1,1,2,2-Tetrachloroethane	ug/kg	6	U	6	U	6	U
1,1,2-Trichloroethane	ug/kg	6	U	6	U	6	U
1,1-Dichloroethane	ug/kg	6	U	6	U	6	U
1,1-Dichloroethylene	ug/kg	6	U	6	U	6	U
1,2-Dichloroethane	ug/kg	6	U	6	U	6	U
1,2-Dichloroethylene	ug/kg	6	U	6	U	6	U
1,2-Dichloropropane	ug/kg	6	U	6	U	6	U
1,3-cis-Dichloropropylene	ug/kg	6	U	6	U	6	U
1,3-trans-Dichloropropylene	ug/kg	6	U	6	U	6	U
2-Butanone	ug/kg	12	U	12	U	12	U
2-Hexanone	ug/kg	19	U	19	U	19	U
2-Propanone	ug/kg	17	B	12	B	12	U
4-Methyl-2-pentanone	ug/kg	19	U	19	U	19	U
Benzene	ug/kg	6	U	6	U	6	U
Bromodichloromethane	ug/kg	6	U	6	U	6	U
Bromoform	ug/kg	12	U	12	U	12	U
Carbon Disulfide	ug/kg	6	U	6	U	6	U
Carbon Tetrachloride	ug/kg	6	U	6	U	6	U
Chlorobenzene	ug/kg	6	U	6	U	6	U
Chloroethane	ug/kg	12	U	12	U	12	U
Chloroform	ug/kg	2	B	2	B	6	U
Dibromochloromethane	ug/kg	6	U	6	U	6	U
Ethylbenzene	ug/kg	6	U	6	U	6	U
Methyl bromide	ug/kg	6	U	6	U	6	U
Methyl chloride	ug/kg	12	U	12	U	12	U
Methylene chloride	ug/kg	40	B	31	B	11	B
Styrene	ug/kg	6	U	6	U	6	U
Tetrachloroethylene	ug/kg	6	U	6	U	6	U
Toluene	ug/kg	6	U	6	U	6	U
Trichloroethylene	ug/kg	6	U	6	U	6	U
Vinyl Acetate	ug/kg	12	U	12	U	12	U
Vinyl chloride	ug/kg	12	U	12	U	12	U
Xylenes (TOTAL)	ug/kg	6	U	6	U	6	U
Semi-volatiles by 8070	ug/kg	400	U	410	U	410	U
1,2,4-Trichlorobenzene	ug/kg						

Appendix H Data Summary Table
ILANG, 182 Airlift Wing, GPRA, Peoria, Illinois

LOCATOR: SB1 SB2
SAMPLE ID: GPA-S3A-SB1-SS0-2 GPA-S3A-SB1-SS5-7 GPA-S3A-SB2-SS03-04
COLLECTION DATE: 12/09/92 12/09/92 01/16/93

	SB1		SB2	
	RESULT	QUAL	RESULT	QUAL
UNITS:	RESULT	QUAL	RESULT	QUAL
1,2-Dichlorobenzene	ug/kg	400	410	U
1,3-Dichlorobenzene	ug/kg	400	410	U
1,4-Dichlorobenzene	ug/kg	400	410	U
2,4,5-Trichlorophenol	ug/kg	810	810	U
2,4,6-Trichlorophenol	ug/kg	810	810	U
2,4-Dichlorophenol	ug/kg	400	410	U
2,4-Dimethylphenol	ug/kg	400	410	U
2,4-Dinitrophenol	ug/kg	1600	1600	U
2,4-Dinitrotoluene	ug/kg	400	410	U
2,6-Dinitrotoluene	ug/kg	400	410	U
2-Chloronaphthalene	ug/kg	400	410	U
2-Chlorophenol	ug/kg	400	410	U
2-Methyl-4,6-Dinitrophenol	ug/kg	1200	1200	U
2-Methylnaphthalene	ug/kg	400	410	U
2-Methylphenol	ug/kg	400	410	U
2-Nitroaniline	ug/kg	400	410	U
2-Nitrophenol	ug/kg	400	410	U
3,3'-Dichlorobenzidine	ug/kg	400	410	U
3-Nitroaniline	ug/kg	810	810	U
4-Bromophenyl phenyl ether	ug/kg	400	410	U
4-Chloro-3-methyl phenol	ug/kg	400	410	U
4-Chloroaniline	ug/kg	400	410	U
4-Chlorophenyl phenyl ether	ug/kg	400	410	U
4-Methylphenol	ug/kg	400	410	U
4-Nitroaniline	ug/kg	810	810	U
4-Nitrophenol	ug/kg	400	410	U
Acenaphthene	ug/kg	400	410	U
Acenaphthylene	ug/kg	400	410	U
Anthracene	ug/kg	400	410	U
Benzo(a)anthracene	ug/kg	400	73	
Benzo(a)pyrene	ug/kg	400	57	
Benzo(b)fluoranthene	ug/kg	400	130	
Benzo(ghi)perylene	ug/kg	400	410	U
Benzo(k)fluoranthene	ug/kg	400	130	
Benzoic Acid	ug/kg	4000	4100	U
Benzyl Alcohol	ug/kg	400	410	U

Appendix H Data Summary Table
ILANG, 182 Airlift Wing, GPRA, Peoria, Illinois

LOCATOR: SB1 SB2
SAMPLE ID: GPA-S3A-SB1-SS0-2 GPA-S3A-SB1-SS5-7 GPA-S3A-SB2-SS03-04
COLLECTION DATE: 12/09/92 12/09/92 01/16/93

UNITS:		RESULT	QUAL	RESULT	QUAL	RESULT	QUAL
Butyl benzyl phthalate	ug/kg	400	U	410	U	410	U
Chrysene	ug/kg	400	U	410	U	59	U
Di-n-butyl phthalate	ug/kg	400	U	410	U	410	U
Di-n-octyl phthalate	ug/kg	400	U	410	U	410	U
Dibenzo(a,h)anthracene	ug/kg	400	U	410	U	410	U
Dibenzofuran	ug/kg	400	U	410	U	410	U
Diethyl phthalate	ug/kg	400	U	410	U	410	U
Dimethyl phthalate	ug/kg	400	U	410	U	410	U
Fluoranthene	ug/kg	400	U	410	U	110	U
Fluorene	ug/kg	400	U	410	U	410	U
Hexachlorobenzene	ug/kg	400	U	410	U	410	U
Hexachlorobutadiene	ug/kg	400	U	410	U	410	U
Hexachlorocyclopentadiene	ug/kg	400	U	410	U	410	U
Hexachloroethane	ug/kg	400	U	410	U	410	U
Indeno(1,2,3-c,d)pyrene	ug/kg	400	U	410	U	410	U
Isophorone	ug/kg	400	U	410	U	410	U
N-Nitrosodi-N-Propylamine	ug/kg	400	U	410	U	410	U
N-Nitrosodiphenylamine	ug/kg	400	U	410	U	410	U
Naphthalene	ug/kg	400	U	410	U	410	U
Nitrobenzene	ug/kg	400	U	410	U	410	U
Pentachlorophenol	ug/kg	810	U	810	U	810	U
Phenanthrene	ug/kg	400	U	410	U	410	U
Phenol	ug/kg	400	U	410	U	410	U
Pyrene	ug/kg	400	U	410	U	100	U
bis(2-Chloroethoxy)methane	ug/kg	400	U	410	U	410	U
bis(2-Chloroethyl) ether	ug/kg	810	U	810	U	810	U
bis(2-Chloroisopropyl)ether	ug/kg	400	U	410	U	410	U
bis(2-Ethylhexyl)phthalate	ug/kg	47		410	U	410	U
Metals							
Aluminum	mg/kg	21600	UL	15100	UL	13100	UL
Antimony	mg/kg	14.80		14.90		14.30	
Arsenic	mg/kg	3.70		3.90		10	
Barium	mg/kg	114		103		105	
Beryllium	mg/kg	0.85	0	0.75	0	0.75	U
Cadmium	mg/kg	1.20	U	1.20	U	1.30	

Appendix H Data Summary Table
ILANG, 182 Airlift Wing, GPRA, Peoria, Illinois

LOCATOR: SB1 SB2
SAMPLE ID: GPA-S3A-SB1-SS0-2 GPA-S3A-SB1-SS5-7 GPA-S3A-SB2-SS03-04
COLLECTION DATE: 12/09/92 12/09/92 01/16/93

UNITS:		RESULT	QUAL	RESULT	QUAL	RESULT	QUAL
Calcium	mg/kg	3950	J	21300	J	34000	
Chromium	mg/kg	26.70	J	25.50	J	20.40	
Cobalt	mg/kg	5.60	()	7.40	()	6.40	()
Copper	mg/kg	20.40		17.20		17.70	
Iron	mg/kg	26000	J	22900	J	19200	
Lead	mg/kg	30.90	K	12.80	K	23.20	L
Magnesium	mg/kg	4430		14500		16500	
Manganese	mg/kg	194	J	326	J	399	
Mercury	mg/kg	0.12	U	0.12	U	0.15	U
Nickel	mg/kg	17.60		17.40		20.30	
Potassium	mg/kg	1560		1530		1570	
Selenium	mg/kg	0.99	UL	1	UL	0.75	U
Silver	mg/kg	1.50	U	1.50	U	2.50	U
Sodium	mg/kg	199	()B	244	()B	237	()
Thallium	mg/kg	0.49	UL	0.50	UL	0.75	U
Vanadium	mg/kg	42.10		39.10		28.20	
Zinc	mg/kg	66.90		55.50		64.90	
TPH							
Total Petroleum Hydrocarbons	mg/kg	13.90		17.70		50.90	

Appendix H Data Summary Table
ILANG, 182 Airlift Wing, GPRA, Peoria, Illinois

LOCATOR: MW1 MW1
SAMPLE ID: GPA-S3A-MW1-GW1 GPA-S3A-MW1-GW2
COLLECTION DATE: 01/21/93 04/18/93

	UNITS:	RESULT	QUAL	RESULT	QUAL
Volatiles by 8010					
1,1,1,2-Tetrachloroethane	ug/l	0.35	U	0.35	U
1,1,1-Trichloroethane	ug/l	0.35	U	0.35	U
1,1,2,2-Tetrachloroethane	ug/l	0.40	U	0.40	U
1,1,2-Trichloroethane	ug/l	0.25	U	0.25	U
1,1-Dichloroethane	ug/l	0.35	U	0.35	U
1,1-Dichloroethylene	ug/l	0.35	U	0.35	U
1,2,3-Trichloropropane	ug/l	0.35	U	0.35	U
1,2-Dibromoethane	ug/l	-	U	0.35	U
1,2-Dibromomethane	ug/l	0.35	U	-	U
1,2-Dichlorobenzene	ug/l	0.30	U	0.30	U
1,2-Dichloroethane	ug/l	0.25	U	0.25	U
1,2-Dichloropropane	ug/l	0.30	U	0.30	U
1,2-trans-Dichloroethylene	ug/l	0.22	U	0.30	U
1,3-Dichlorobenzene	ug/l	0.20	U	0.20	U
1,3-cis-Dichloropropylene	ug/l	0.30	U	0.30	U
1,3-trans-Dichloropropylene	ug/l	0.25	U	0.25	U
1,4-Dichlorobenzene	ug/l	0.20	U	0.20	U
2-Chloroethylvinyl ether	ug/l	0.40	U	0.40	U
2-Chlorotoluene	ug/l	0.25	U	0.25	U
4-Chlorotoluene	ug/l	0.35	U	0.35	U
Bromobenzene	ug/l	0.85	U	0.85	U
Bromochloromethane	ug/l	0.25	U	0.25	U
Bromodichloromethane	ug/l	0.40	U	0.40	U
Bromoform	ug/l	0.50	U	0.50	U
Carbon Tetrachloride	ug/l	0.35	U	0.35	U
Chlorobenzene	ug/l	0.35	U	0.35	U
Chloroethane	ug/l	0.50	U	0.50	U
Chloroform	ug/l	0.67	B	0.35	U
Dibromochloromethane	ug/l	0.30	U	0.30	U
Dibromomethane	ug/l	0.40	U	0.40	U
Methyl bromide	ug/l	0.45	U	0.45	U
Methyl chloride	ug/l	0.50	U	0.50	U
Methylene chloride	ug/l	0.70	B	0.33	B
Tetrachloroethylene	ug/l	0.30	U	0.30	U
Trichloroethylene	ug/l	8.10	U	0.30	U

Appendix H Data Summary Table
ILANG, 182 Airlift Wing, GPRA, Peoria, Illinois

LOCATOR: MW1 MW1
SAMPLE ID: GPA-S3A-MW1-GW1 GPA-S3A-MW1-GW2
COLLECTION DATE: 01/21/93 04/18/93

	UNITS:	RESULT	QUAL	RESULT	QUAL
Vinyl chloride	ug/l	0.55	U	0.55	U
Volatiles by 8020					
1,2-Dichlorobenzene	ug/l	0.26	B	0.15	U
1,2-Dimethylbenzene	ug/l	0.20	U	0.20	U
1,3-Dichlorobenzene	ug/l	0.09	B	0.20	U
1,3/1,4-Dimethylbenzene	ug/l	0.50	U	0.50	U
1,4-Dichlorobenzene	ug/l	0.13	B	0.15	U
Benzene	ug/l	0.35	U	0.35	U
Chlorobenzene	ug/l	0.25	U	0.25	U
Ethylbenzene	ug/l	0.20	U	0.20	U
Methyl-t-Butyl Ether	ug/l	5	U	5	U
Styrene	ug/l	0.25	U	0.25	U
Toluene	ug/l	0.25	U	0.38	B
Semi-volatiles by 8070					
1,2,4-Trichlorobenzene	ug/l	10	U	10	U
1,2-Dichlorobenzene	ug/l	10	U	10	U
1,3-Dichlorobenzene	ug/l	10	U	10	U
1,4-Dichlorobenzene	ug/l	10	U	10	U
2,4,5-Trichlorophenol	ug/l	20	U	20	U
2,4,6-Trichlorophenol	ug/l	20	U	20	U
2,4-Dichlorophenol	ug/l	10	U	10	U
2,4-Dimethylphenol	ug/l	10	U	10	U
2,4-Dinitrophenol	ug/l	40	U	40	U
2,4-Dinitrotoluene	ug/l	10	U	10	U
2,6-Dinitrotoluene	ug/l	10	U	10	U
2-Chloronaphthalene	ug/l	10	U	10	U
2-Chlorophenol	ug/l	10	U	10	U
2-Methyl-4,6-Dinitrophenol	ug/l	30	U	30	U
2-Methylnaphthalene	ug/l	10	U	10	U
2-Methylphenol	ug/l	10	U	10	U
2-Nitroaniline	ug/l	10	U	10	U
2-Nitrophenol	ug/l	10	U	10	U
3,3'-Dichlorobenzidine	ug/l	10	U	10	U
3-Nitroaniline	ug/l	20	U	20	U

Appendix H Data Summary Table
ILANG, 182 Airlift Wing, GPRA, Peoria, Illinois

LOCATOR: MW1 MW1
SAMPLE ID: GPA-S3A-MW1-GW1 GPA-S3A-MW1-GW2
COLLECTION DATE: 01/21/93 04/18/93

	UNITS:	RESULT	QUAL	RESULT	QUAL
4-Bromophenyl phenyl ether	ug/l	10	U	10	U
4-Chloro-3-methyl phenol	ug/l	10	U	10	U
4-Chloroaniline	ug/l	10	U	10	U
4-Chlorophenyl phenyl ether	ug/l	10	U	10	U
4-Methylphenol	ug/l	10	U	10	U
4-Nitroaniline	ug/l	10	U	10	U
4-Nitrophenol	ug/l	10	U	10	U
Acenaphthene	ug/l	10	U	10	U
Acenaphthylene	ug/l	10	U	10	U
Anthracene	ug/l	10	U	10	U
Benzo(a)anthracene	ug/l	10	U	10	U
Benzo(a)pyrene	ug/l	10	U	10	U
Benzo(b)fluoranthene	ug/l	10	U	10	U
Benzo(ghi)perylene	ug/l	10	U	10	U
Benzo(k)fluoranthene	ug/l	10	U	10	U
Benzoic Acid	ug/l	7	U	100	U
Benzyl Alcohol	ug/l	10	U	10	U
Butyl benzyl phthalate	ug/l	2	B	10	U
Chrysene	ug/l	10	U	10	U
Di-n-butyl phthalate	ug/l	10	U	10	U
Di-n-octyl phthalate	ug/l	10	U	10	U
Dibenzo(a,h)anthracene	ug/l	10	U	10	U
Dibenzofuran	ug/l	10	U	10	U
Diethyl phthalate	ug/l	10	U	10	U
Dimethyl phthalate	ug/l	10	U	10	U
Fluoranthene	ug/l	10	U	10	U
Fluorene	ug/l	10	U	10	U
Hexachlorobenzene	ug/l	10	U	10	U
Hexachlorobutadiene	ug/l	10	U	10	U
Hexachlorocyclopentadiene	ug/l	10	U	10	U
Hexachloroethane	ug/l	10	U	10	U
Indeno(1,2,3-c,d)pyrene	ug/l	10	U	10	U
Isophorone	ug/l	10	U	10	U
N-Nitrosodi-N-Propylamine	ug/l	10	U	10	U
N-Nitrosodiphenylamine	ug/l	10	U	10	U
Naphthalene	ug/l	10	U	10	U

Appendix H Data Summary Table
ILANG, 182 Airlift Wing, GPRA, Peoria, Illinois

LOCATOR: MW1
SAMPLE ID: GPA-S3A-MW1-GW1 GPA-S3A-MW1-GW2
COLLECTION DATE: 01/21/93 04/18/93

	UNITS:	RESULT	QUAL	RESULT	QUAL
Nitrobenzene	ug/l	10	U	10	U
Pentachlorophenol	ug/l	20	U	20	U
Phenanthrene	ug/l	10	U	10	U
Phenol	ug/l	10	U	10	U
Pyrene	ug/l	10	U	1	J
bis(2-Chloroethoxy)methane	ug/l	10	U	10	U
bis(2-Chloroethyl) ether	ug/l	20	U	20	UJ
bis(2-Chloroisopropyl)ether	ug/l	10	U	10	U
bis(2-Ethylhexyl)phthalate	ug/l	10	U	10	U
Metals					
Aluminum	ug/l	67100		313	B
Aluminum, Dissolved	ug/l	355	B	136	(B)
Antimony	ug/l	52	U	36	U
Antimony, Dissolved	ug/l	52	U	36	U
Arsenic	ug/l	5.50	U	3	U
Arsenic, Dissolved	ug/l	3	U	3	U
Barium	ug/l	733		180	(B)
Barium, Dissolved	ug/l	204	B	198	(B)
Beryllium	ug/l	4.60	U	1	U
Beryllium, Dissolved	ug/l	1	U	1	U
Cadmium	ug/l	5	U	5	U
Cadmium, Dissolved	ug/l	5	U	5	U
Calcium	ug/l	156000	B	66600	B
Calcium, Dissolved	ug/l	87300	B	72800	B
Chromium	ug/l	69.60		8	U
Chromium, Dissolved	ug/l	6	U	8	U
Cobalt	ug/l	26.40	U	8	U
Cobalt, Dissolved	ug/l	9	U	8	U
Copper	ug/l	51.30	B	4	U
Copper, Dissolved	ug/l	4	U	4	U
Iron	ug/l	71600	K	253	B
Iron, Dissolved	ug/l	174		50.50	(B)
Lead	ug/l	37.10	L	2	UL
Lead, Dissolved	ug/l	2	UL	2	UL
Magnesium	ug/l	81300	B	25600	B

Appendix H Data Summary Table
 ILANG, 182 Airlift Wing, GPRA, Peoria, Illinois

LOCATOR: MW1 MW1
 SAMPLE ID: GPA-S3A-MW1-GW1 GPA-S3A-MW1-GW2
 COLLECTION DATE: 01/21/93 04/18/93

		UNITS:		RESULT	QUAL	RESULT	QUAL
Magnesium, Dissolved	ug/l	34400	B	27900	B		
Manganese	ug/l	1460	L	306			
Manganese, Dissolved	ug/l	279		327			
Mercury	ug/l	0.20	U	0.20	U		
Mercury, Dissolved	ug/l	0.20	U	0.20	U		
Nickel	ug/l	52.80		17	U		
Nickel, Dissolved	ug/l	13	U	17	U		
Potassium	ug/l	13100	B	2310	(B)		
Potassium, Dissolved	ug/l	4420	(B)	3090	(B)		
Selenium	ug/l	3	UL	3	U		
Selenium, Dissolved	ug/l	4	UL	3	U		
Silver	ug/l	5	U	7	U		
Silver, Dissolved	ug/l	5	U	7	U		
Sodium	ug/l	69300	B	7950	B		
Sodium, Dissolved	ug/l	72200	B	8840	B		
Thallium	ug/l	3	UL	4	U		
Thallium, Dissolved	ug/l	30	UL	4	UL		
Vanadium	ug/l	116		6	U		
Vanadium, Dissolved	ug/l	4	U	6	U		
Zinc	ug/l	211	B	19.20	(B)		
Zinc, Dissolved	ug/l	11.50	(B)	36.20	B		
TPH							
Total Petroleum Hydrocarbons	mg/l	0.25	U	0.80			

Appendix H Data Summary Table ILANG, 182 Airlift Wing, GPRA, Peoria, Illinois

LOCATOR: SB1 SB1 SB1 SB2 SB2 SB2
SAMPLE ID: GPA-S3B-SB1-SS0-2 GPA-S3B-SB1-SS5-7 GPA-S3B-SB1-SS10-12 GPA-S3B-SB2-SS0-2 GPA-S3B-SB2-SS5-7 GPA-S3B-SB2-SS10-12
COLLECTION DATE: 12/08/92 12/08/92 12/08/92 12/08/92 12/08/94 12/08/92

UNITS:		RESULT	QUAL	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL
Volatiles by 8240											
1,1,1-Trichloroethane	ug/kg	6	U	5	U	6	U	6	U	6	U
1,1,2,2-Tetrachloroethane	ug/kg	13	U	11	U	12	U	11	U	13	U
1,1,2-Trichloroethane	ug/kg	6	U	5	U	6	U	6	U	6	U
1,1-Dichloroethane	ug/kg	6	U	5	U	6	U	6	U	6	U
1,1-Dichloroethylene	ug/kg	6	U	5	U	6	U	6	U	6	U
1,2-Dichloroethane	ug/kg	6	U	5	U	6	U	6	U	6	U
1,2-Dichloroethylene	ug/kg	6	U	5	U	6	U	6	U	6	U
1,2-Dichloropropane	ug/kg	6	U	5	U	6	U	6	U	6	U
1,2-Dichloroethylene	ug/kg	6	U	5	U	6	U	6	U	6	U
1,3-cis-Dichloropropylene	ug/kg	6	U	5	U	6	U	6	U	6	U
1,3-trans-Dichloropropylene	ug/kg	6	U	5	U	6	U	6	U	6	U
2-Butanone	ug/kg	13	U	11	U	12	U	11	U	13	U
2-Hexanone	ug/kg	19	U	16	U	18	U	17	U	19	U
2-Propanone	ug/kg	15	B	19	B	16	B	10	B	23	B
4-Methyl-2-pentanone	ug/kg	19	U	16	U	18	U	17	U	19	U
Benzene	ug/kg	6	U	5	U	6	U	6	U	6	U
Bromodichloromethane	ug/kg	6	U	5	U	6	U	6	U	6	U
Bromoform	ug/kg	13	U	11	U	12	U	11	U	13	U
Carbon Disulfide	ug/kg	6	U	5	U	6	U	6	U	6	U
Carbon Tetrachloride	ug/kg	6	U	5	U	6	U	6	U	6	U
Chlorobenzene	ug/kg	6	U	5	U	6	U	6	U	6	U
Chloroethane	ug/kg	13	U	11	U	12	U	11	U	13	U
Chloroform	ug/kg	6	U	5	U	2	B	6	U	6	U
Dibromochloromethane	ug/kg	6	U	5	U	6	U	6	U	6	U
Ethylbenzene	ug/kg	6	U	5	U	6	U	6	U	6	U
Methyl bromide	ug/kg	6	U	5	U	6	U	6	U	6	U
Methyl chloride	ug/kg	13	U	11	U	12	U	11	U	13	U
Methylene chloride	ug/kg	24	B	44	B	29	B	29	B	42	B
Styrene	ug/kg	6	U	5	U	6	U	6	U	6	U
Tetrachloroethylene	ug/kg	6	U	5	U	6	U	6	U	6	U
Toluene	ug/kg	6	U	5	U	6	U	6	U	6	U
Trichloroethylene	ug/kg	6	U	5	U	6	U	6	U	6	U
Vinyl Acetate	ug/kg	13	U	11	U	12	U	11	U	13	U
Vinyl chloride	ug/kg	13	U	11	U	12	U	11	U	13	U
Xylenes (TOTAL)	ug/kg	6	U	5	U	6	U	6	U	6	U
Semi-volatiles by 8070											
1,2,4-Trichlorobenzene	ug/kg	430	U	410	U	400	U	370	U	400	U
										430	U

Appendix H Data Summary Table ILANG, 182 Airlift Wing, GPRA, Peoria, Illinois

LOCATOR:		SB1		SB1		SB1		SB2		SB2		SB2	
SAMPLE ID:		GPA-S3B-SB1-SSO-2		GPA-S3B-SB1-SS5-7		GPA-S3B-SB1-SS10-12		GPA-S3B-SB2-SSO-2		GPA-S3B-SB2-SS5-7		GPA-S3B-SB2-SS10-12	
COLLECTION DATE:		12/08/92		12/08/92		12/08/92		12/08/92		12/08/94		12/08/92	
UNITS:		RESULT	QUAL	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL
1,2-Dichlorobenzene	ug/kg	430	U	410	U	400	U	370	U	400	U	430	U
1,3-Dichlorobenzene	ug/kg	430	U	410	U	400	U	370	U	400	U	430	U
1,4-Dichlorobenzene	ug/kg	430	U	410	U	400	U	370	U	400	U	430	U
2,4,5-Trichlorophenol	ug/kg	850	U	830	U	800	U	740	U	810	U	850	U
2,4,6-Trichlorophenol	ug/kg	850	U	830	U	800	U	740	U	810	U	850	U
2,4-Dichlorophenol	ug/kg	430	U	410	U	400	U	370	U	400	U	430	U
2,4-Dimethylphenol	ug/kg	430	U	410	U	400	U	370	U	400	U	430	U
2,4-Dinitrophenol	ug/kg	1700	U	1600	U	1600	U	1500	U	1600	U	1700	U
2,4-Dinitrotoluene	ug/kg	430	U	410	U	400	U	370	U	400	U	430	U
2,6-Dinitrotoluene	ug/kg	430	U	410	U	400	U	370	U	400	U	430	U
2-Chloronaphthalene	ug/kg	430	U	410	U	400	U	370	U	400	U	430	U
2-Chlorophenol	ug/kg	430	U	410	U	400	U	370	U	400	U	430	U
2-Methyl-4,6-Dinitrophenol	ug/kg	1300	U	1200	U	1200	U	1100	U	1200	U	1300	U
2-Methylnaphthalene	ug/kg	430	U	410	U	400	U	370	U	400	U	430	U
2-Methylphenol	ug/kg	430	U	410	U	400	U	370	U	400	U	430	U
2-Nitroaniline	ug/kg	430	U	410	U	400	U	370	U	400	U	430	U
2-Nitrophenol	ug/kg	430	U	410	U	400	U	370	U	400	U	430	U
3,3'-Dichlorobenzidine	ug/kg	850	U	830	U	800	U	740	U	810	U	850	U
3-Nitroaniline	ug/kg	430	U	410	U	400	U	370	U	400	U	430	U
4-Bromophenyl phenyl ether	ug/kg	430	U	410	U	400	U	370	U	400	U	430	U
4-Chloro-3-methyl phenol	ug/kg	430	U	410	U	400	U	370	U	400	U	430	U
4-Chloroaniline	ug/kg	430	U	410	U	400	U	370	U	400	U	430	U
4-Chlorophenyl phenyl ether	ug/kg	430	U	410	U	400	U	370	U	400	U	430	U
4-Methylphenol	ug/kg	430	U	410	U	400	U	370	U	400	U	430	U
4-Nitroaniline	ug/kg	850	U	830	U	800	U	740	U	810	U	850	U
4-Nitrophenol	ug/kg	430	U	410	U	400	U	370	U	400	U	430	U
Acenaphthene	ug/kg	430	U	410	U	400	U	370	U	400	U	430	U
Acenaphthylene	ug/kg	430	U	410	U	400	U	370	U	400	U	430	U
Anthracene	ug/kg	430	U	410	U	400	U	370	U	400	U	430	U
Benzo(a)anthracene	ug/kg	430	U	410	U	400	U	52		400	U	430	U
Benzo(a)pyrene	ug/kg	430	U	410	U	400	U	380	U	400	U	430	U
Benzo(b)fluoranthene	ug/kg	430	U	410	U	400	U	240	U	400	U	430	U
Benzo(ghi)perylene	ug/kg	430	U	410	U	400	U	800	U	400	U	430	U
Benzo(k)fluoranthene	ug/kg	430	U	410	U	400	U	300	U	400	U	430	U
Benzoic Acid	ug/kg	4300	U	4100	U	4000	U	800	U	400	U	4300	U
Benzyl Alcohol	ug/kg	430	U	410	U	400	U	370	U	400	U	430	U

Appendix H Data Summary Table ILANG, 182 Airlift Wing, GPRA, Peoria, Illinois

LOCATOR:	SB1		SB1		SB1		SB2		SB2		SB2	
	GPA-S3B-SB1-SS0-2		GPA-S3B-SB1-SS5-7		GPA-S3B-SB1-SS10-12		GPA-S3B-SB2-SS0-2		GPA-S3B-SB2-SS5-7		GPA-S3B-SB2-SS10-12	
	12/08/92	12/08/92	12/08/92	12/08/92	12/08/92	12/08/92	12/08/92	12/08/92	12/08/94	12/08/94	12/08/92	12/08/92
UNITS:	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL
Butyl benzyl phthalate	ug/kg	430	U		400	U	370	U	400	U	430	U
Chrysene	ug/kg	430	U		400	U	390	U	400	U	430	U
Di-n-butyl phthalate	ug/kg	430	U		400	U	370	U	400	U	430	U
Di-n-octyl phthalate	ug/kg	430	U		400	U	370	U	400	U	430	U
Dibenzo(a,h)anthracene	ug/kg	430	U		400	U	370	U	400	U	430	U
Dibenzofuran	ug/kg	430	U		400	U	370	U	400	U	430	U
Diethyl phthalate	ug/kg	430	U		400	U	370	U	400	U	430	U
Dimethyl phthalate	ug/kg	430	U		400	U	370	U	400	U	430	U
Fluoranthene	ug/kg	430	U		400	U	790	U	400	U	430	U
Fluorene	ug/kg	430	U		400	U	370	U	400	U	430	U
Hexachlorobenzene	ug/kg	430	U		400	U	370	U	400	U	430	U
Hexachlorobutadiene	ug/kg	430	U		400	U	370	U	400	U	430	U
Hexachlorocyclopentadiene	ug/kg	430	U		400	U	370	U	400	U	430	U
Hexachloroethane	ug/kg	430	U		400	U	370	U	400	U	430	U
Indeno(1,2,3-c,d)pyrene	ug/kg	430	U		400	U	370	U	400	U	430	U
Isophorone	ug/kg	430	U		400	U	310	U	400	U	430	U
N-Nitrosodi-N-Propylamine	ug/kg	430	U		400	U	370	U	400	U	430	U
N-Nitrosodiphenylamine	ug/kg	430	U		400	U	370	U	400	U	430	U
Naphthalene	ug/kg	430	U		400	U	370	U	400	U	430	U
Nitrobenzene	ug/kg	430	U		400	U	370	U	400	U	430	U
Pentachlorophenol	ug/kg	850	U		800	U	740	U	810	U	850	U
Phenanthrene	ug/kg	430	U		400	U	440	U	400	U	430	U
Phenol	ug/kg	430	U		400	U	370	U	400	U	430	U
Pyrene	ug/kg	430	U		400	U	680	U	400	U	430	U
bis(2-Chloroethoxy)methane	ug/kg	430	U		400	U	370	U	400	U	430	U
bis(2-Chloroethyl) ether	ug/kg	850	U		800	U	740	U	810	U	850	U
bis(2-Chloroisopropyl)ether	ug/kg	430	U		400	U	370	U	400	U	430	U
bis(2-Ethylhexyl)phthalate	ug/kg	120	B		44	B	200	B	400	U	430	U
Metals												
Aluminum	mg/kg	13800	UL		7770	UL	11700	UL	10800	UL	6330	UL
Antimony	mg/kg	15.50			14.80		13.70		14.90		15.60	
Arsenic	mg/kg	8.90			9.20		21.10		20.30		2.90	
Barium	mg/kg	101			58.50		114		158		46.60	
Beryllium	mg/kg	0.85			0.50		0.71		0.64		0.41	
Cadmium	mg/kg	1.30	U		1.20	U	1.10	U	1.20	U	1.30	U

Appendix H Data Summary Table ILANG, 182 Airlift Wing, GPRA, Peoria, Illinois

LOCATOR:		SB1		SB1		SB1		SB2		SB2		SB2	
SAMPLE ID:		GPA-S3B-SB1-SS0-2		GPA-S3B-SB1-SS5-7		GPA-S3B-SB1-SS10-12		GPA-S3B-SB2-SS0-2		GPA-S3B-SB2-SS5-7		GPA-S3B-SB2-SS10-12	
COLLECTION DATE:		12/08/92		12/08/92		12/08/92		12/08/92		12/08/94		12/08/92	
UNITS:		RESULT	QUAL	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL
Calcium	mg/kg	2820	J	47200	J	47100	J	8790	J	38700	J	42400	J
Chromium	mg/kg	19.90	J	12.30	J	12.80	J	16.70	J	16.70	J	13	J
Cobalt	mg/kg	15.60		4.30		6.70		10.60		10.70		5.40	
Copper	mg/kg	24.60		9.30		10.90		15.60		14.30		9.90	
Iron	mg/kg	24200	J	10600	J	14400	J	19300	J	19300	J	9720	J
Lead	mg/kg	20.40	K	9.10	K	9.10	K	22.80	K	11.60	K	7.20	K
Magnesium	mg/kg	3540		27900		29200		3570		24300		25200	
Manganese	mg/kg	996	J	235	J	433	J	697	J	1170	J	341	J
Mercury	mg/kg	0.13	U	0.13	U	0.12	U	0.11	U	0.12	U	0.13	U
Nickel	mg/kg	25.40		10.10		16.40		17.50		25.30		14.10	
Potassium	mg/kg	1160		619		958		1010		1260		528	
Selenium	mg/kg	1	UL	1	UL	0.98	UL	0.91	UL	0.99	UL	1	U
Silver	mg/kg	1.60	U	1.50	U	1.50	U	1.40	U	1.50	U	1.60	U
Sodium	mg/kg	217	UB	254	UB	241	UB	175	UB	236	UB	272	UB
Thallium	mg/kg	0.52	UL	0.50	UL	0.49	UL	0.46	UL	0.50	UL	0.52	UL
Vanadium	mg/kg	35.20		16.30		19.70		27.50		28		19.70	
Zinc	mg/kg	75		27.60		31.40		71		43		33.20	
TPH													
Total Petroleum Hydrocarbons	mg/kg	17.70		43.40		20.60		68.70		23		116	

Appendix H Data Summary Table
ILANG, 182 Airlift Wing, GPRA, Peoria, Illinois

LOCATOR: SB3
SAMPLE ID: GPA-S3B-SB3-SS0-2 SB3
COLLECTION DATE: 12/10/92 GPA-S3B-SB3-SS4-6 SB3
GPA-S3B-SB3-SS8-10
12/10/92

UNITS:		RESULT	QUAL	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL
Volatiles by 8240									
1,1,1-Trichloroethane	ug/kg	6	U	6	U	6	U	6	U
1,1,2,2-Tetrachloroethane	ug/kg	12	U	13	U	12	U	12	U
1,1,2-Trichloroethane	ug/kg	6	U	6	U	6	U	6	U
1,1-Dichloroethane	ug/kg	6	U	6	U	6	U	6	U
1,1-Dichloroethylene	ug/kg	6	U	6	U	6	U	6	U
1,2-Dichloroethane	ug/kg	6	U	6	U	6	U	6	U
1,2-Dichloroethylene	ug/kg	6	U	6	U	6	U	6	U
1,2-Dichloropropane	ug/kg	6	U	6	U	6	U	6	U
1,3-cis-Dichloropropylene	ug/kg	6	U	6	U	6	U	6	U
1,3-trans-Dichloropropylene	ug/kg	6	U	6	U	6	U	6	U
2-Butanone	ug/kg	12	U	13	U	12	U	12	U
2-Hexanone	ug/kg	18	U	19	U	19	U	19	U
2-Propanone	ug/kg	10	B	24	B	25	B	25	B
4-Methyl-2-pentanone	ug/kg	18	U	19	U	19	U	19	U
Benzene	ug/kg	6	U	6	U	6	U	6	U
Bromodichloromethane	ug/kg	6	U	6	U	6	U	6	U
Bromoform	ug/kg	12	U	13	U	12	U	12	U
Carbon Disulfide	ug/kg	6	U	6	U	6	U	6	U
Carbon Tetrachloride	ug/kg	6	U	6	U	6	U	6	U
Chlorobenzene	ug/kg	6	U	6	U	6	U	6	U
Chloroethane	ug/kg	12	U	13	U	12	U	12	U
Chloroform	ug/kg	2	B	1	B	6	U	6	U
Dibromochloromethane	ug/kg	6	U	6	U	6	U	6	U
Ethylbenzene	ug/kg	6	U	6	U	6	U	6	U
Methyl bromide	ug/kg	6	U	6	U	6	U	6	U
Methyl chloride	ug/kg	12	U	13	U	12	U	12	U
Methylene chloride	ug/kg	23	B	19	B	22	B	22	B
Styrene	ug/kg	6	U	6	U	6	U	6	U
Tetrachloroethylene	ug/kg	6	U	6	U	6	U	6	U
Toluene	ug/kg	6	U	6	U	6	U	6	U
Trichloroethylene	ug/kg	6	U	6	U	6	U	6	U
Vinyl Acetate	ug/kg	12	U	13	U	12	U	12	U
Vinyl chloride	ug/kg	12	U	13	U	12	U	12	U
Xylenes (TOTAL)	ug/kg	6	U	6	U	6	U	6	U
Semi-volatiles by 8070									
1,2,4-Trichlorobenzene	ug/kg	390	U	410	U	410	U	410	U

Appendix H Data Summary Table
ILANG, 182 Airlift Wing, GPRA, Peoria, Illinois

LOCATOR:		SB3		SB3		SB3		SB3	
SAMPLE ID:		GPA-S3B-SB3-SS0-2		GPA-S3B-SB3-SS4-6		GPA-S3B-SB3-SS8-10			
COLLECTION DATE:		12/10/92		12/10/92		12/10/92			
UNITS:		RESULT	QUAL	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL
1,2-Dichlorobenzene	ug/kg	390	U	410	U	410	U	410	U
1,3-Dichlorobenzene	ug/kg	390	U	410	U	410	U	410	U
1,4-Dichlorobenzene	ug/kg	390	U	410	U	410	U	410	U
2,4,5-Trichlorophenol	ug/kg	780	U	820	U	820	U	820	U
2,4,6-Trichlorophenol	ug/kg	780	U	820	U	820	U	820	U
2,4-Dichlorophenol	ug/kg	390	U	410	U	410	U	410	U
2,4-Dimethylphenol	ug/kg	390	U	410	U	410	U	410	U
2,4-Dinitrophenol	ug/kg	1500	U	1600	U	1600	U	1600	U
2,4-Dinitrotoluene	ug/kg	390	U	410	U	410	U	410	U
2,6-Dinitrotoluene	ug/kg	390	U	410	U	410	U	410	U
2-Chloronaphthalene	ug/kg	390	U	410	U	410	U	410	U
2-Chlorophenol	ug/kg	390	U	410	U	410	U	410	U
2-Methyl-4,6-Dinitrophenol	ug/kg	1200	U	1200	U	1200	U	1200	U
2-Methylnaphthalene	ug/kg	390	U	410	U	410	U	410	U
2-Methylphenol	ug/kg	390	U	410	U	410	U	410	U
2-Nitroaniline	ug/kg	390	U	410	U	410	U	410	U
2-Nitrophenol	ug/kg	390	U	410	U	410	U	410	U
3,3'-Dichlorobenzidine	ug/kg	390	U	410	U	410	U	410	U
3-Nitroaniline	ug/kg	780	U	820	U	820	U	820	U
4-Bromophenyl phenyl ether	ug/kg	390	U	410	U	410	U	410	U
4-Chloro-3-methyl phenol	ug/kg	390	U	410	U	410	U	410	U
4-Chloroaniline	ug/kg	390	U	410	U	410	U	410	U
4-Chlorophenyl phenyl ether	ug/kg	390	U	410	U	410	U	410	U
4-Methylphenol	ug/kg	390	U	410	U	410	U	410	U
4-Nitroaniline	ug/kg	780	U	820	U	820	U	820	U
4-Nitrophenol	ug/kg	390	U	410	U	410	U	410	U
Acenaphthene	ug/kg	48	U	410	U	410	U	410	U
Acenaphthylene	ug/kg	390	U	410	U	410	U	410	U
Anthracene	ug/kg	130	U	410	U	410	U	410	U
Benzo(a)anthracene	ug/kg	560	U	410	U	410	U	410	U
Benzo(a)pyrene	ug/kg	560	U	410	U	410	U	410	U
Benzo(b)fluoranthene	ug/kg	1200	U	410	U	410	U	410	U
Benzo(ghi)perylene	ug/kg	440	U	410	U	410	U	410	U
Benzo(k)fluoranthene	ug/kg	1200	U	410	U	410	U	410	U
Benzoic Acid	ug/kg	3900	U	4100	U	4100	U	4100	U
Benzyl Alcohol	ug/kg	390	U	410	U	410	U	410	U

Appendix H Data Summary Table
ILANG, 182 Airlift Wing, GPRA, Peoria, Illinois

LOCATOR: SB3 SB3 SB3
SAMPLE ID: GPA-S3B-SB3-SS0-2 GPA-S3B-SB3-SS4-6 GPA-S3B-SB3-SS8-10
COLLECTION DATE: 12/10/92 12/10/92 12/10/92

UNITS: RESULT QUAL RESULT QUAL RESULT QUAL

Butyl benzyl phthalate	ug/kg	390	U	410	U	410	U
Chrysene	ug/kg	700		410	U	410	U
Di-n-butyl phthalate	ug/kg	390	U	410	U	410	U
Di-n-octyl phthalate	ug/kg	390	U	410	U	410	U
Dibenzo(a,h)anthracene	ug/kg	390	U	410	U	410	U
Dibenzofuran	ug/kg	390	U	410	U	410	U
Diethyl phthalate	ug/kg	390	U	410	U	410	U
Dimethyl phthalate	ug/kg	390	U	410	U	410	U
Fluoranthene	ug/kg	1300		410	U	410	U
Fluorene	ug/kg	52		410	U	410	U
Hexachlorobenzene	ug/kg	390	U	410	U	410	U
Hexachlorobutadiene	ug/kg	390	U	410	U	410	U
Hexachlorocyclopentadiene	ug/kg	390	U	410	U	410	U
Hexachloroethane	ug/kg	390	U	410	U	410	U
Indeno(1,2,3-c,d)pyrene	ug/kg	400		410	U	410	U
Isophorone	ug/kg	390	U	410	U	410	U
N-Nitrosodi-N-Propylamine	ug/kg	390	U	410	U	410	U
N-Nitrosodiphenylamine	ug/kg	390	U	410	U	410	U
Naphthalene	ug/kg	390	U	410	U	410	U
Nitrobenzene	ug/kg	390	U	410	U	410	U
Pentachlorophenol	ug/kg	780	U	830	U	820	U
Phenanthrene	ug/kg	770		410	U	410	U
Phenol	ug/kg	390	U	410	U	410	U
Pyrene	ug/kg	990		410	U	410	U
bis(2-Chloroethoxy)methane	ug/kg	390	U	410	U	410	U
bis(2-Chloroethyl) ether	ug/kg	780	U	820	U	820	U
bis(2-Chloroisopropyl)ether	ug/kg	390	U	410	U	410	U
bis(2-Ethylhexyl)phthalate	ug/kg	96		55	B	50	

Metals							
Aluminum	mg/kg	10300	UL	16200	UL	10800	UL
Antimony	mg/kg	14.40		15.20		14.20	
Arsenic	mg/kg	5.90		9.80		6.90	K
Barium	mg/kg	174		122		79.20	
Beryllium	mg/kg	0.72	0	0.79	0J	0.50	U
Cadmium	mg/kg	1.20	U	1.30	U	1.20	U

Appendix H Data Summary Table
ILANG, 182 Airlift Wing, GPRA, Peoria, Illinois

LOCATOR: SB3 SB3 SB3
SAMPLE ID: GPA-S3B-SB3-SS0-2' GPA-S3B-SB3-SS4-6' GPA-S3B-SB3-SS8-10
COLLECTION DATE: 12/10/92 12/10/92 12/10/92

UNITS:		RESULT	QUAL	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL
Calcium	mg/kg	17900	J	2370	J	43500			
Chromium	mg/kg	14.80	J	19.30	J	19			
Cobalt	mg/kg	11.40	()	7.60	()	6.40	()		
Copper	mg/kg	14.20		15.90		14.10			
Iron	mg/kg	18400	J	22000	J	15700	L		
Lead	mg/kg	24.90	K	26.10	K	7.10			
Magnesium	mg/kg	7940		3410		26400			
Manganese	mg/kg	1240	J	530	J	486	K		
Mercury	mg/kg	0.12	U	0.13	U	0.12	UJ		
Nickel	mg/kg	16.10		15.70		14.90			
Potassium	mg/kg	992	()	1030	()	1210	U		
Selenium	mg/kg	0.96	UL	1	UL	1	UL		
Silver	mg/kg	1.40	U	1.50	U	2.50	UL		
Sodium	mg/kg	209	()B	194	()B	227	()		
Thallium	mg/kg	0.48	UL	0.51	UL	0.50	U		
Vanadium	mg/kg	27.30		31.40		31.30			
Zinc	mg/kg	74.50		62.20		32.20			
TPH									
Total Petroleum Hydrocarbons	mg/kg	77.30		13.20		62.30			

Appendix H Data Summary Table
ILANG, 182 Airlift Wing, GPRA, Peoria, Illinois

LOCATOR: MW1 MW1
SAMPLE ID: GPA-S3B-MW1-GW1 GPA-S3B-MW1-GW2
COLLECTION DATE: 01/20/93 04/18/93

	UNITS:	RESULT	QUAL	RESULT	QUAL
Volatiles by 8010					
1,1,1,2-Tetrachloroethane	ug/l	0.35	U	0.35	UJ
1,1,1-Trichloroethane	ug/l	0.35	U	0.03	J
1,1,2,2-Tetrachloroethane	ug/l	0.40	U	0.40	UJ
1,1,2-Trichloroethane	ug/l	0.25	U	0.25	UJ
1,1-Dichloroethane	ug/l	0.35	U	0.35	UJ
1,1-Dichloroethylene	ug/l	0.35	U	0.35	UJ
1,2,3-Trichloropropane	ug/l	0.35	U	0.35	UJ
1,2-Dibromoethane	ug/l	-	U	0.35	UJ
1,2-Dibromomethane	ug/l	0.35	U	-	
1,2-Dichlorobenzene	ug/l	0.30	U	0.30	UJ
1,2-Dichloroethane	ug/l	0.25	U	0.25	UJ
1,2-Dichloropropane	ug/l	0.30	U	0.30	UJ
1,2-trans-Dichloroethylene	ug/l	2.20	U	1.40	J
1,3-Dichlorobenzene	ug/l	0.20	U	0.20	UJ
1,3-cis-Dichloropropylene	ug/l	0.30	U	0.30	UJ
1,3-trans-Dichloropropylene	ug/l	0.25	U	0.25	UJ
1,4-Dichlorobenzene	ug/l	0.20	U	0.20	UJ
2-Chloroethylvinyl ether	ug/l	0.40	U	0.40	UJ
2-Chlorotoluene	ug/l	0.25	U	0.25	UJ
4-Chlorotoluene	ug/l	0.35	U	0.35	UJ
Bromobenzene	ug/l	0.85	U	0.85	UJ
Bromochloromethane	ug/l	0.25	U	0.25	UJ
Bromodichloromethane	ug/l	0.40	U	0.40	UJ
Bromoform	ug/l	0.50	U	0.50	UJ
Carbon Tetrachloride	ug/l	0.35	U	0.35	UJ
Chlorobenzene	ug/l	0.35	U	0.35	UJ
Chloroethane	ug/l	0.50	U	0.50	UJ
Chloroform	ug/l	0.72	B	0.35	UJ
Dibromochloromethane	ug/l	0.30	U	0.30	UJ
Dibromomethane	ug/l	0.40	U	0.40	UJ
Methyl bromide	ug/l	0.45	U	0.45	UJ
Methyl chloride	ug/l	0.50	U	0.50	UJ
Methylene chloride	ug/l	0.49	B	1	UJ
Tetrachloroethylene	ug/l	0.30	U	0.30	UJ
Trichloroethylene	ug/l	0.31		0.01	B

Appendix H Data Summary Table ILANG, 182 Airlift Wing, GPRA, Peoria, Illinois

LOCATOR: MW1 MW1
SAMPLE ID: GPA-S3B-MW1-GW1 GPA-S3B-MW1-GW2
COLLECTION DATE: 01/20/93 04/18/93

	UNITS:	RESULT	QUAL	RESULT	QUAL
Vinyl chloride	ug/l	0.55	U	0.55	UJ
Volatiles by 8020					
1,2-Dichlorobenzene	ug/l	0.27		0.15	U
1,2-Dimethylbenzene	ug/l	0.20	U	0.20	U
1,3-Dichlorobenzene	ug/l	0.02		0.20	U
1,3/1,4-Dimethylbenzene	ug/l	0.50	U	0.50	U
1,4-Dichlorobenzene	ug/l	0.15	U	0.15	U
Benzene	ug/l	0.35	U	0.35	U
Chlorobenzene	ug/l	0.25	U	0.25	U
Ethylbenzene	ug/l	0.37		0.20	U
Methyl-t-Butyl Ether	ug/l	5	U	5	U
Styrene	ug/l	0.25	U	0.25	U
Toluene	ug/l	0.25	U	0.90	B
Semi-volatiles by 8070					
1,2,4-Trichlorobenzene	ug/l	10	U	10	U
1,2-Dichlorobenzene	ug/l	10	U	10	U
1,3-Dichlorobenzene	ug/l	10	U	10	U
1,4-Dichlorobenzene	ug/l	10	U	10	U
2,4,5-Trichlorophenol	ug/l	20	U	20	U
2,4,6-Trichlorophenol	ug/l	20	U	20	U
2,4-Dichlorophenol	ug/l	10	U	10	U
2,4-Dimethylphenol	ug/l	10	U	10	U
2,4-Dinitrophenol	ug/l	40	U	40	U
2,4-Dinitrotoluene	ug/l	10	U	10	U
2,6-Dinitrotoluene	ug/l	10	U	10	U
2-Chloronaphthalene	ug/l	10	U	10	U
2-Chlorophenol	ug/l	10	U	10	U
2-Methyl-4,6-Dinitrophenol	ug/l	30	U	30	U
2-Methylnaphthalene	ug/l	10	U	10	U
2-Methylphenol	ug/l	10	U	10	U
2-Nitroaniline	ug/l	10	U	10	U
2-Nitrophenol	ug/l	10	U	10	U
3,3'-Dichlorobenzidine	ug/l	10	U	10	U
3-Nitroaniline	ug/l	20	U	20	U

Appendix H Data Summary Table
ILANG, 182 Airlift Wing, GPRA, Peoria, Illinois

LOCATOR: MW1 MW1
SAMPLE ID: GPA-S3B-MW1-GW1 GPA-S3B-MW1-GW2
COLLECTION DATE: 01/20/93 04/18/93

	UNITS:	RESULT	QUAL	RESULT	QUAL
4-Bromophenyl phenyl ether	ug/l	10	U	10	U
4-Chloro-3-methyl phenol	ug/l	10	U	10	U
4-Chloroaniline	ug/l	10	U	10	U
4-Chlorophenyl phenyl ether	ug/l	10	U	10	U
4-Methylphenol	ug/l	10	U	10	U
4-Nitroaniline	ug/l	10	U	10	U
4-Nitrophenol	ug/l	10	U	10	U
Acenaphthene	ug/l	10	U	10	U
Acenaphthylene	ug/l	10	U	10	U
Anthracene	ug/l	10	U	10	U
Benzo(a)anthracene	ug/l	10	U	10	U
Benzo(a)pyrene	ug/l	10	U	10	U
Benzo(b)fluoranthene	ug/l	10	U	10	U
Benzo(ghi)perylene	ug/l	10	U	10	U
Benzo(k)fluoranthene	ug/l	10	U	10	U
Benzoic Acid	ug/l	32	J	100	U
Benzyl Alcohol	ug/l	10	U	10	U
Butyl benzyl phthalate	ug/l	10	U	10	U
Chrysene	ug/l	10	U	10	U
Di-n-butyl phthalate	ug/l	10	U	10	U
Di-n-octyl phthalate	ug/l	10	U	10	U
Dibenzo(a,h)anthracene	ug/l	10	U	10	U
Dibenzofuran	ug/l	10	U	10	U
Diethyl phthalate	ug/l	10	U	10	U
Dimethyl phthalate	ug/l	10	U	10	U
Fluoranthene	ug/l	10	U	10	U
Fluorene	ug/l	10	U	10	U
Hexachlorobenzene	ug/l	10	U	10	U
Hexachlorobutadiene	ug/l	10	U	10	U
Hexachlorocyclopentadiene	ug/l	10	U	10	U
Hexachloroethane	ug/l	10	U	10	U
Indeno(1,2,3-c,d)pyrene	ug/l	10	U	10	U
Isophorone	ug/l	10	U	10	U
N-Nitrosodi-N-Propylamine	ug/l	10	U	10	U
N-Nitrosodiphenylamine	ug/l	10	U	10	U
Naphthalene	ug/l	10	U	10	U

Appendix H Data Summary Table
ILANG, 182 Airlift Wing, GPRA, Peoria, Illinois

LOCATOR: MW1
SAMPLE ID: GPA-S3B-MW1-GW1 GPA-S3B-MW1-GW2
COLLECTION DATE: 01/20/93 04/18/93

	UNITS:	RESULT	QUAL	RESULT	QUAL
Nitrobenzene	ug/l	10	U	10	U
Pentachlorophenol	ug/l	20	U	20	U
Phenanthrene	ug/l	10	U	10	U
Phenol	ug/l	10	U	10	U
Pyrene	ug/l	10	U	10	U
bis(2-Chloroethoxy)methane	ug/l	10	U	10	U
bis(2-Chloroethyl) ether	ug/l	20	U	20	U
bis(2-Chloroisopropyl)ether	ug/l	10	U	10	U
bis(2-Ethylhexyl)phthalate	ug/l	10	U	10	U
Metals					
Aluminum	ug/l	14500		973	J
Aluminum, Dissolved	ug/l	67.90	0B	86.20	0B
Antimony	ug/l	52	U	36	U
Antimony, Dissolved	ug/l	52	U	36	U
Arsenic	ug/l	3.30	0	3.20	0
Arsenic, Dissolved	ug/l	3	U	3	U
Barium	ug/l	376		223	B
Barium, Dissolved	ug/l	262	B	235	B
Beryllium	ug/l	1.20	0	1	U
Beryllium, Dissolved	ug/l	1	U	1	U
Cadmium	ug/l	5	U	5	U
Cadmium, Dissolved	ug/l	5	U	5	U
Calcium	ug/l	101000	B	109000	B
Calcium, Dissolved	ug/l	106000	B	112000	B
Chromium	ug/l	19		8	U
Chromium, Dissolved	ug/l	6	U	8	U
Cobalt	ug/l	9	U	8	U
Cobalt, Dissolved	ug/l	9	U	8	U
Copper	ug/l	8.90	0B	7	0L
Copper, Dissolved	ug/l	4	U	4.60	0
Iron	ug/l	9940	K	671	J
Iron, Dissolved	ug/l	13	U	41	U
Lead	ug/l	4.90	L	2	UL
Lead, Dissolved	ug/l	2	UL	2	UL
Magnesium	ug/l	40800	B	48800	B

Appendix H Data Summary Table
ILANG, 182 Airlift Wing, GPRA, Peoria, Illinois

LOCATOR: MW1
SAMPLE ID: GPA-S3B-MW1-GW1 GPA-S3B-MW1-GW2
COLLECTION DATE: 01/20/93 04/18/93

	UNITS:	RESULT	QUAL	RESULT	QUAL
Magnesium, Dissolved	ug/l	46000	B	43100	B
Manganese	ug/l	507	L	385	
Manganese, Dissolved	ug/l	418		416	
Mercury	ug/l	0.20	U	0.20	U
Mercury, Dissolved	ug/l	0.20	U	0.20	U
Nickel	ug/l	13	U	17	U
Nickel, Dissolved	ug/l	13	U	17	U
Potassium	ug/l	8090	B	2680	(B)
Potassium, Dissolved	ug/l	4550	(B)	4350	(B)
Selenium	ug/l	3	UL	3	U
Selenium, Dissolved	ug/l	4	UL	3	UL
Silver	ug/l	5	U	7	U
Silver, Dissolved	ug/l	5	U	7	U
Sodium	ug/l	21500	B	13700	B
Sodium, Dissolved	ug/l	18800	B	15800	B
Thallium	ug/l	3	UL	4	U
Thallium, Dissolved	ug/l	30	UL	4	UL
Vanadium	ug/l	15.90	()	6	U
Vanadium, Dissolved	ug/l	4	U	6	U
Zinc	ug/l	46.60	B	28.50	B
Zinc, Dissolved	ug/l	32	B	4	U
TPH					
Total Petroleum Hydrocarbons	mg/l	0.70	B	1	

Appendix H Data Summary Table ILANG, 182 Airlift Wing, GPRA, Peoria, Illinois

LOCATOR: SB1 SB1 SB1 SB2 SB2 SB3
 SAMPLE ID: GPA-S3C-SB1-SS02-04 GPA-S3C-SB1-SS04-06 GPA-S3C-SB1-SS08-10 GPA-S3C-SB2-SS02-04 GPA-S3C-SB2-SS04-06 GPA-S3C-SB3-SS02-04
 COLLECTION DATE: 01/15/93 01/15/93 01/15/93 01/15/94 01/15/94 01/15/94

	UNITS:	SB1		SB1		SB1		SB2		SB2		SB3	
		RESULT	QUAL	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL
Volatiles by 8240													
1,1,1-Trichloroethane	ug/kg	6	U	6	U	6	U	5	U	7	U	5	U
1,1,2,2-Tetrachloroethane	ug/kg	12	U	13	U	12	U	11	U	14	U	11	U
1,1,2-Trichloroethane	ug/kg	6	U	6	U	6	U	5	U	7	U	5	U
1,1-Dichloroethane	ug/kg	6	U	6	U	6	U	5	U	7	U	5	U
1,1-Dichloroethylene	ug/kg	6	U	6	U	6	U	5	U	7	U	5	U
1,2-Dichloroethane	ug/kg	6	U	6	U	6	U	5	U	7	U	5	U
1,2-Dichloroethylene	ug/kg	6	U	6	U	6	U	5	U	7	U	5	U
1,2-Dichloropropane	ug/kg	6	U	6	U	6	U	5	U	7	U	5	U
1,3-cis-Dichloropropylene	ug/kg	6	U	6	U	6	U	5	U	7	U	5	U
1,3-trans-Dichloropropylene	ug/kg	6	U	6	U	6	U	5	U	7	U	5	U
2-Butanone	ug/kg	12	U	13	U	12	U	11	U	14	U	11	U
2-Hexanone	ug/kg	18	U	19	U	18	U	16	U	21	U	16	U
2-Propanone	ug/kg	9	B	12	B	20	B	9	B	13	B	2	B
4-Methyl-2-pentanone	ug/kg	18	U	19	U	18	U	16	U	21	U	16	U
Benzene	ug/kg	6	U	6	U	6	U	5	U	7	U	5	U
Bromodichloromethane	ug/kg	6	U	6	U	6	U	5	U	7	U	5	U
Bromoform	ug/kg	12	U	13	U	12	U	11	U	14	U	11	U
Carbon Disulfide	ug/kg	6	U	6	U	6	U	5	U	7	U	5	U
Carbon Tetrachloride	ug/kg	6	U	6	U	6	U	5	U	7	U	5	U
Chlorobenzene	ug/kg	6	U	6	U	6	U	5	U	7	U	5	U
Chloroethane	ug/kg	12	U	13	U	12	U	11	U	14	U	11	U
Chloroform	ug/kg	6	U	2	B	2	B	2	B	2	B	5	U
Dibromochloromethane	ug/kg	6	U	6	U	6	U	5	U	7	U	5	U
Ethylbenzene	ug/kg	6	U	6	U	6	U	5	U	7	U	5	U
Methyl bromide	ug/kg	6	U	6	U	6	U	5	U	7	U	5	U
Methyl chloride	ug/kg	12	U	13	U	12	U	11	U	14	U	11	U
Methylene chloride	ug/kg	11	B	13	B	13	B	11	B	14	B	8	B
Styrene	ug/kg	6	U	6	U	6	U	5	U	7	U	5	U
Tetrachloroethylene	ug/kg	6	U	6	U	6	U	5	U	7	U	5	U
Toluene	ug/kg	6	U	6	U	6	U	5	U	7	U	5	U
Trichloroethylene	ug/kg	6	U	6	U	6	U	5	U	7	U	5	U
Vinyl Acetate	ug/kg	12	U	13	U	12	U	11	U	14	U	11	U
Vinyl chloride	ug/kg	12	U	13	U	12	U	11	U	14	U	11	U
Xylenes (TOTAL)	ug/kg	6	U	6	U	6	U	5	U	7	U	5	U
Semi-volatiles by 8070													
1,2,4-Trichlorobenzene	ug/kg	390	U	420	U	390	U	350	U	450	U	350	U

Appendix H Data Summary Table ILANG, 182 Airlift Wing, GPRA, Peoria, Illinois

LOCATOR: SB1 SB1 SB1 SB1 SB2 SB2 SB3
 SAMPLE ID: GPA-S3C-SB1-SS02-04 GPA-S3C-SB1-SS04-06 GPA-S3C-SB1-SS08-10 GPA-S3C-SB2-SS02-04 GPA-S3C-SB2-SS04-06 GPA-S3C-SB3-SS02-04
 COLLECTION DATE: 01/15/93 01/15/93 01/15/93 01/15/94 01/15/94 01/15/94

UNITS:	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL	
ug/kg	390	U	420	U	390	U	350	U	450	U	350	U	
1,2-Dichlorobenzene	ug/kg	390	U	420	U	390	U	350	U	450	U	350	U
1,3-Dichlorobenzene	ug/kg	390	U	420	U	390	U	350	U	450	U	350	U
1,4-Dichlorobenzene	ug/kg	390	U	420	U	390	U	350	U	450	U	350	U
2,4,5-Trichlorophenol	ug/kg	780	U	850	U	780	U	690	U	890	U	700	U
2,4,6-Trichlorophenol	ug/kg	780	U	850	U	780	U	690	U	890	U	700	U
2,4-Dichlorophenol	ug/kg	390	U	420	U	390	U	350	U	450	U	350	U
2,4-Dimethylphenol	ug/kg	390	U	420	U	390	U	350	U	450	U	350	U
2,4-Dinitrophenol	ug/kg	1500	U	1700	U	1500	U	1400	U	1800	U	1400	U
2,4-Dinitrotoluene	ug/kg	390	U	420	U	390	U	350	U	450	U	350	U
2,6-Dinitrotoluene	ug/kg	390	U	420	U	390	U	350	U	450	U	350	U
2-Chloronaphthalene	ug/kg	390	U	420	U	390	U	350	U	450	U	350	U
2-Chlorophenol	ug/kg	390	U	420	U	390	U	350	U	450	U	350	U
2-Methyl-4,6-Dinitrophenol	ug/kg	1200	U	1300	U	1200	U	1000	U	1300	U	1100	U
2-Methylnaphthalene	ug/kg	390	U	420	U	390	U	350	U	450	U	350	U
2-Methylphenol	ug/kg	390	U	420	U	390	U	350	U	450	U	350	U
2-Nitroaniline	ug/kg	390	U	420	U	390	U	350	U	450	U	350	U
2-Nitrophenol	ug/kg	390	U	420	U	390	U	350	U	450	U	350	U
3,3'-Dichlorobenzidine	ug/kg	390	U	420	U	390	U	350	U	450	U	350	U
3-Nitroaniline	ug/kg	780	U	850	U	780	U	690	U	890	U	700	U
4-Bromophenyl phenyl ether	ug/kg	390	U	420	U	390	U	350	U	450	U	350	U
4-Chloro-3-methyl phenol	ug/kg	390	U	420	U	390	U	350	U	450	U	350	U
4-Chloroaniline	ug/kg	390	U	420	U	390	U	350	U	450	U	350	U
4-Chlorophenyl phenyl ether	ug/kg	390	U	420	U	390	U	350	U	450	U	350	U
4-Methylphenol	ug/kg	390	U	420	U	390	U	350	U	450	U	350	U
4-Nitroaniline	ug/kg	780	U	850	U	780	U	690	U	890	U	700	U
4-Nitrophenol	ug/kg	390	U	420	U	390	U	350	U	450	U	350	U
Acenaphthene	ug/kg	390	U	420	U	390	U	350	U	450	U	350	U
Acenaphthylene	ug/kg	390	U	420	U	390	U	350	U	450	U	350	U
Anthracene	ug/kg	390	U	420	U	390	U	350	U	450	U	350	U
Benzo(a)anthracene	ug/kg	390	U	420	U	390	U	350	U	450	U	350	U
Benzo(a)pyrene	ug/kg	390	U	420	U	390	U	350	U	450	U	350	U
Benzo(b)fluoranthene	ug/kg	390	U	420	U	390	U	350	U	450	U	350	U
Benzo(ghi)perylene	ug/kg	390	U	420	U	390	U	350	U	450	U	350	U
Benzo(k)fluoranthene	ug/kg	390	U	420	U	390	U	350	U	450	U	350	U
Benzoic Acid	ug/kg	3900	U	4200	U	3900	U	3500	U	4500	U	3500	U
Benzyl Alcohol	ug/kg	390	U	420	U	390	U	350	U	450	U	350	U

Appendix H Data Summary Table ILANG, 182 Airlift Wing, GPRA, Peoria, Illinois

LOCATOR: SB1 SB1 SB1 SB2 SB2 SB3
 SAMPLE ID: GPA-S3C-SB1-SS02-04 GPA-S3C-SB1-SS04-06 GPA-S3C-SB1-SS08-10 GPA-S3C-SB2-SS02-04 GPA-S3C-SB2-SS04-06 GPA-S3C-SB3-SS02-04
 COLLECTION DATE: 01/15/93 01/15/93 01/15/93 01/15/94 01/15/94 01/15/94

	UNITS:	SB1		SB1		SB2		SB2		SB3	
		RESULT	QUAL	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL
Butyl benzyl phthalate	ug/kg	390	U	420	U	350	U	450	U	350	U
Chrysene	ug/kg	390	U	420	U	350	U	450	U	350	U
Di-n-butyl phthalate	ug/kg	390	U	420	U	350	U	450	U	350	U
Di-n-octyl phthalate	ug/kg	390	U	420	U	350	U	450	U	350	U
Dibenzo(a,h)anthracene	ug/kg	390	U	420	U	350	U	450	U	350	U
Dibenzofuran	ug/kg	390	U	420	U	350	U	450	U	350	U
Diethyl phthalate	ug/kg	390	U	420	U	350	U	450	U	350	U
Dimethyl phthalate	ug/kg	390	U	420	U	350	U	450	U	350	U
Fluoranthene	ug/kg	390	U	420	U	350	U	450	U	350	U
Fluorene	ug/kg	390	U	420	U	350	U	450	U	37	U
Hexachlorobenzene	ug/kg	390	U	420	U	350	U	450	U	350	U
Hexachlorobutadiene	ug/kg	390	U	420	U	350	U	450	U	350	U
Hexachlorocyclopentadiene	ug/kg	390	U	420	U	350	U	450	U	350	U
Hexachloroethane	ug/kg	390	U	420	U	350	U	450	U	350	U
Indeno(1,2,3-c,d)pyrene	ug/kg	390	U	420	U	350	U	450	U	350	U
Isophorone	ug/kg	390	U	420	U	350	U	450	U	350	U
N-Nitrosodi-N-Propylamine	ug/kg	390	U	420	U	350	U	450	U	350	U
N-Nitrosodiphenylamine	ug/kg	390	U	420	U	350	U	450	U	350	U
Naphthalene	ug/kg	390	U	420	U	350	U	450	U	350	U
Nitrobenzene	ug/kg	390	U	420	U	350	U	450	U	350	U
Pentachlorophenol	ug/kg	780	U	850	U	690	U	890	U	700	U
Phenanthrene	ug/kg	390	U	420	U	350	U	450	U	48	U
Phenol	ug/kg	390	U	420	U	350	U	450	U	350	U
Pyrene	ug/kg	390	U	420	U	350	U	450	U	350	U
bis(2-Chloroethoxy)methane	ug/kg	390	U	420	U	350	U	450	U	350	U
bis(2-Chloroethyl) ether	ug/kg	780	U	850	U	690	U	890	U	700	U
bis(2-Chloroisopropyl)ether	ug/kg	390	U	420	U	350	U	450	U	350	U
bis(2-Ethylhexyl)phthalate	ug/kg	390	U	420	U	36	U	450	U	350	U
Metals											
Aluminum	mg/kg	13000	UL	11000	UL	13200	UL	9100	UL	2910	UL
Antimony	mg/kg	13.70	UL	14.70	UL	13.80	UL	12.10	UL	12.10	UL
Arsenic	mg/kg	8.20	UL	9	UL	5.70	UL	4.50	UL	7.90	UL
Barium	mg/kg	131	UL	119	UL	191	UL	108	UL	17.30	UL
Beryllium	mg/kg	0.82	UL	0.78	UL	0.72	UL	0.82	UL	0.64	UL
Cadmium	mg/kg	1.20	UL	1.30	UL	1.20	UL	1.40	UL	1.10	UL

Appendix H Data Summary Table ILANG, 182 Airlift Wing, GPRA, Peoria, Illinois

LOCATOR: SB1 SB1 SB2 SB3
 SAMPLE ID: GPA-S3C-SB1-SS02-04 GPA-S3C-SB1-SS04-06 GPA-S3C-SB1-SS08-10 GPA-S3C-SB2-SS02-04 GPA-S3C-SB2-SS04-06 GPA-S3C-SB3-SS02-04
 COLLECTION DATE: 01/15/93 01/15/93 01/15/93 01/15/94 01/15/94 01/15/94

UNITS:		RESULT	QUAL	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL
Calcium	mg/kg	2700		3400		2420		25000		2780		78400	
Chromium	mg/kg	21.60		18.20		14.90		14		16.90		7.40	
Cobalt	mg/kg	8.30	()	8.40	()	12	()	4.70	()	10	B	3.70	()
Copper	mg/kg	17.60		18.80		13.10		9.50		19.90		13	
Iron	mg/kg	23300		18800		16700		13000		21600		15900	
Lead	mg/kg	16	L	25.60	L	19.80	L	10.60	L	14	L	11.40	L
Magnesium	mg/kg	3230		3430		2810		16000		3100		35600	
Manganese	mg/kg	654		357		617		319		967		457	
Mercury	mg/kg	0.12	U	0.13	U	0.12	U	0.11	U	0.14	U	0.11	U
Nickel	mg/kg	23.90		28.50		11		11.60		37.10		8.10	U
Potassium	mg/kg	1490		1360		1350		1080		1980		1300	
Selenium	mg/kg	0.72	U	0.78	U	0.72	U	0.64	U	0.82	U	0.85	U
Silver	mg/kg	2.40	U	2.60	U	2.40	U	2.10	U	2.70	U	2.10	U
Sodium	mg/kg	170	()	216	()	173	()	208	()	208	()	241	()
Thallium	mg/kg	0.72	U	0.78	U	0.72	U	0.64	U	0.82	U	3.20	U
Vanadium	mg/kg	28.90		29.90		31.30		19.90		28.60		9.60	()
Zinc	mg/kg	63.10		54.50		56.20		36.60		51.80		69	
TPH													
Total Petroleum Hydrocarbons	mg/kg	12.30		13.40		16.80		16		19.70		50.90	

Appendix H Data Summary Table
ILANG, 182 Airlift Wing, GPRA, Peoria, Illinois

LOCATOR: SB3 SB4 SB4
SAMPLE ID: GPA-S3C-SB3-SS04-06 GPA-S3C-SB4-SS02-04 GPA-S3C-SB4-SS06-08
COLLECTION DATE: 01/15/94 01/16/94 01/16/94

UNITS:		RESULT	QUAL	RESULT	QUAL	RESULT	QUAL
Volatiles by 8240							
1,1,1-Trichloroethane	ug/kg	6	U	6	U	6	U
1,1,2,2-Tetrachloroethane	ug/kg	13	U	12	U	13	U
1,1,2-Trichloroethane	ug/kg	6	U	6	U	6	U
1,1-Dichloroethane	ug/kg	6	U	6	U	6	U
1,1-Dichloroethane	ug/kg	6	U	6	U	6	U
1,2-Dichloroethane	ug/kg	6	U	6	U	6	U
1,2-Dichloroethane	ug/kg	6	U	6	U	6	U
1,2-Dichloropropane	ug/kg	6	U	6	U	6	U
1,3-cis-Dichloropropylene	ug/kg	6	U	6	U	6	U
1,3-trans-Dichloropropylene	ug/kg	6	U	6	U	6	U
2-Butanone	ug/kg	13	U	12	U	13	U
2-Hexanone	ug/kg	19	U	19	U	19	U
2-Propanone	ug/kg	13	U	8	B	21	B
4-Methyl-2-pentanone	ug/kg	19	U	19	U	19	U
Benzene	ug/kg	6	U	6	U	6	U
Bromodichloromethane	ug/kg	6	U	6	U	6	U
Bromoform	ug/kg	13	U	12	U	13	U
Carbon Disulfide	ug/kg	6	U	6	U	6	U
Carbon Tetrachloride	ug/kg	6	U	6	U	6	U
Chlorobenzene	ug/kg	6	U	6	U	6	U
Chloroethane	ug/kg	13	U	12	U	13	U
Chloroform	ug/kg	1	B	6	U	6	U
Dibromochloromethane	ug/kg	6	U	6	U	6	U
Ethylbenzene	ug/kg	6	U	6	U	6	U
Methyl bromide	ug/kg	6	U	6	U	6	U
Methyl chloride	ug/kg	13	U	12	U	13	U
Methylene chloride	ug/kg	11	B	12	B	13	B
Styrene	ug/kg	6	U	6	U	6	U
Tetrachloroethylene	ug/kg	6	U	6	U	6	U
Toluene	ug/kg	6	U	6	U	6	U
Trichloroethylene	ug/kg	6	U	6	U	6	U
Vinyl Acetate	ug/kg	13	U	12	U	13	U
Vinyl chloride	ug/kg	13	U	12	U	13	U
Xylenes (TOTAL)	ug/kg	6	U	6	U	6	U
Semi-volatiles by 8070							
1,2,4-Trichlorobenzene	ug/kg	410	U	410	U	420	U

Appendix H Data Summary Table
ILANG, 182 Airlift Wing, GPRA, Peoria, Illinois

LOCATOR: SB3 SB4 SB4
SAMPLE ID: GPA-S3C-SB3-SS04-06 GPA-S3C-SB4-SS02-04 GPA-S3C-SB4-SS06-08
COLLECTION DATE: 01/15/94 01/16/94 01/16/94

	UNITS:	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL
1,2-Dichlorobenzene	ug/kg	410	U	410	U	420	U
1,3-Dichlorobenzene	ug/kg	410	U	410	U	420	U
1,4-Dichlorobenzene	ug/kg	410	U	410	U	420	U
2,4,5-Trichlorophenol	ug/kg	820	U	820	U	830	U
2,4,6-Trichlorophenol	ug/kg	820	U	820	U	830	U
2,4-Dichlorophenol	ug/kg	410	U	410	U	420	U
2,4-Dimethylphenol	ug/kg	410	U	410	U	420	U
2,4-Dinitrophenol	ug/kg	1600	U	1600	U	1600	U
2,4-Dinitrotoluene	ug/kg	410	U	410	U	420	U
2,6-Dinitrotoluene	ug/kg	410	U	410	U	420	U
2-Chloronaphthalene	ug/kg	410	U	410	U	420	U
2-Chlorophenol	ug/kg	410	U	410	U	420	U
2-Methyl-4,6-Dinitrophenol	ug/kg	1200	U	1200	U	1200	U
2-Methylnaphthalene	ug/kg	410	U	410	U	420	U
2-Methylphenol	ug/kg	410	U	410	U	420	U
2-Nitroaniline	ug/kg	410	U	410	U	420	U
2-Nitrophenol	ug/kg	410	U	410	U	420	U
3,3'-Dichlorobenzidine	ug/kg	410	U	410	U	420	U
3-Nitroaniline	ug/kg	820	U	820	U	830	U
4-Bromophenyl phenyl ether	ug/kg	410	U	410	U	420	U
4-Chloro-3-methyl phenol	ug/kg	410	U	410	U	420	U
4-Chloroaniline	ug/kg	410	U	410	U	420	U
4-Chlorophenyl phenyl ether	ug/kg	410	U	410	U	420	U
4-Methylphenol	ug/kg	410	U	410	U	420	U
4-Nitroaniline	ug/kg	820	U	820	U	830	U
4-Nitrophenol	ug/kg	410	U	410	U	420	U
Acenaphthene	ug/kg	410	U	410	U	420	U
Acenaphthylene	ug/kg	410	U	410	U	420	U
Anthracene	ug/kg	410	U	410	U	420	U
Benzo(a)anthracene	ug/kg	410	U	410	U	420	U
Benzo(a)pyrene	ug/kg	410	U	410	U	420	U
Benzo(b)fluoranthene	ug/kg	410	U	410	U	420	U
Benzo(ghi)perylene	ug/kg	410	U	410	U	420	U
Benzo(k)fluoranthene	ug/kg	410	U	410	U	420	U
Benzoic Acid	ug/kg	4100	U	4100	U	4200	U
Benzyl Alcohol	ug/kg	410	U	410	U	420	U

Appendix H Data Summary Table
ILANG, 182 Airlift Wing, GPRA, Peoria, Illinois

LOCATOR: SB3 SB4 SB4
SAMPLE ID: GPA-S3C-SB3-SS04-06 GPA-S3C-SB4-SS02-04 GPA-S3C-SB4-SS06-08
COLLECTION DATE: 01/15/94 01/16/94 01/16/94

UNITS:		RESULT	QUAL	RESULT	QUAL	RESULT	QUAL
Butyl benzyl phthalate	ug/kg	410	U	410	U	420	U
Chrysene	ug/kg	410	U	410	U	420	U
Di-n-butyl phthalate	ug/kg	410	U	410	U	420	U
Di-n-octyl phthalate	ug/kg	410	U	410	U	420	U
Dibenzo(a,h)anthracene	ug/kg	410	U	410	U	420	U
Dibenzofuran	ug/kg	410	U	410	U	420	U
Diethyl phthalate	ug/kg	410	U	410	U	420	U
Dimethyl phthalate	ug/kg	410	U	410	U	420	U
Fluoranthene	ug/kg	410	U	410	U	420	U
Fluorene	ug/kg	410	U	410	U	420	U
Hexachlorobenzene	ug/kg	410	U	410	U	420	U
Hexachlorobutadiene	ug/kg	410	U	410	U	420	U
Hexachlorocyclopentadiene	ug/kg	410	U	410	U	420	U
Hexachloroethane	ug/kg	410	U	410	U	420	U
Indeno(1,2,3-c,d)pyrene	ug/kg	410	U	410	U	420	U
Isophorone	ug/kg	410	U	410	U	420	U
N-Nitrosodi-N-Propylamine	ug/kg	410	U	410	U	420	U
N-Nitrosodiphenylamine	ug/kg	410	U	410	U	420	U
Naphthalene	ug/kg	410	U	410	U	420	U
Nitrobenzene	ug/kg	410	U	410	U	420	U
Pentachlorophenol	ug/kg	820	U	820	U	830	U
Phenanthrene	ug/kg	410	U	410	U	420	U
Phenol	ug/kg	410	U	410	U	420	U
Pyrene	ug/kg	410	U	410	U	420	U
bis(2-Chloroethoxy)methane	ug/kg	410	U	410	U	420	U
bis(2-Chloroethyl) ether	ug/kg	820	U	820	U	830	U
bis(2-Chloroisopropyl)ether	ug/kg	410	U	410	U	420	U
bis(2-Ethylhexyl)phthalate	ug/kg	97		410	U	60	
Metals							
Aluminum	mg/kg	10200	UL	17300	UL	15500	UL
Antimony	mg/kg	14.40		14.10		14.50	
Arsenic	mg/kg	9.60		12.80		6.40	
Barium	mg/kg	84.70		130		132	
Beryllium	mg/kg	0.76	U	0.81	0	0.76	U
Cadmium	mg/kg	1.30	U	1.20	U	1.30	U

Appendix H Data Summary Table
ILANG, 182 Airlift Wing, GPRA, Peoria, Illinois

LOCATOR: SB3 SB4 SB4
SAMPLE ID: GPA-S3C-SB3-SS04-06 GPA-S3C-SB4-SS02-04 GPA-S3C-SB4-SS06-08
COLLECTION DATE: 01/15/94 01/16/94 01/16/94

UNITS:		RESULT	QUAL	RESULT	QUAL	RESULT	QUAL
Calcium	mg/kg	2350		3030		3300	
Chromium	mg/kg	17.30		21.60		18.70	
Cobalt	mg/kg	5.50	()	10.30	()	13.10	
Copper	mg/kg	17.90		18		18	
Iron	mg/kg	20200		25200		20700	
Lead	mg/kg	14	L	26.70	L	18.90	L
Magnesium	mg/kg	2800		3580		3530	
Manganese	mg/kg	254		635		622	
Mercury	mg/kg	0.13	U	0.12	U	0.13	U
Nickel	mg/kg	19.20		19.80		22.30	
Potassium	mg/kg	1000	U	1410		1330	
Selenium	mg/kg	1	U	0.74	U	1	U
Silver	mg/kg	2.50	U	2.50	U	6.20	
Sodium	mg/kg	193	()	140	()	183	()
Thallium	mg/kg	0.76	U	0.74	U	0.76	U
Vanadium	mg/kg	25.40		34.30		28.90	
Zinc	mg/kg	51.20		69.30		65.80	
TPH							
Total Petroleum Hydrocarbons	mg/kg	22.20		26.70		26.60	

Appendix H Data Summary Table ILANG, 182 Airlift Wing, GPRA, Peoria, Illinois

LOCATOR: MW1 MW1 MW4
 SAMPLE ID: GPA-S3C-MW1-GW1 GPA-S3C-MW1-GW2 GPA-SBG-MW4-GW1
 COLLECTION DATE: 01/20/93 04/18/93 01/20/93

	UNITS:		RESULT		QUAL	RESULT		QUAL	RESULT		QUAL
Volatiles by 8010											
1,1,1,2-Tetrachloroethane	ug/l	0.35	U	0.35	U	0.35	U	0.35	U	0.35	U
1,1,1-Trichloroethane	ug/l	0.35	U	0.35	U	0.35	U	0.35	U	0.35	U
1,1,2,2-Tetrachloroethane	ug/l	0.40	U	0.40	U	0.40	U	0.40	U	0.40	U
1,1,2-Trichloroethane	ug/l	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U
1,1-Dichloroethane	ug/l	0.35	U	0.35	U	0.35	U	0.35	U	0.35	U
1,1-Dichloroethylene	ug/l	0.35	U	0.35	U	0.35	U	0.35	U	0.35	U
1,2,3-Trichloropropane	ug/l	0.35	U	0.35	U	0.35	U	0.35	U	0.35	U
1,2-Dibromoethane	ug/l	-	U	0.35	U	-	U	-	U	-	U
1,2-Dibromomethane	ug/l	0.35	U	0.35	U	0.35	U	0.35	U	0.35	U
1,2-Dichlorobenzene	ug/l	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U
1,2-Dichloroethane	ug/l	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U
1,2-Dichloropropane	ug/l	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U
1,2-trans-Dichloroethylene	ug/l	0.30	U	0.01	U	0.01	U	0.30	U	0.30	U
1,3-Dichlorobenzene	ug/l	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U
1,3-cis-Dichloropropylene	ug/l	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U
1,3-trans-Dichloropropylene	ug/l	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U
1,4-Dichlorobenzene	ug/l	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U
2-Chloroethylvinyl ether	ug/l	0.40	U	0.40	U	0.40	U	0.40	U	0.40	U
2-Chlorotoluene	ug/l	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U
4-Chlorotoluene	ug/l	0.35	U	0.35	U	0.35	U	0.35	U	0.35	U
Bromobenzene	ug/l	0.85	U	0.85	U	0.85	U	0.85	U	0.85	U
Bromochloromethane	ug/l	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U
Bromodichloromethane	ug/l	0.40	U	0.40	U	0.40	U	0.40	U	0.40	U
Bromoform	ug/l	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Carbon Tetrachloride	ug/l	0.35	U	0.35	U	0.35	U	0.35	U	0.35	U
Chlorobenzene	ug/l	0.35	U	0.35	U	0.35	U	0.35	U	0.35	U
Chloroethane	ug/l	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Chloroform	ug/l	0.45	B	0.01	B	0.01	B	0.30	B	0.30	B
Dibromochloromethane	ug/l	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U
Dibromomethane	ug/l	0.40	U	0.40	U	0.40	U	0.40	U	0.40	U
Methyl bromide	ug/l	0.45	U	0.45	U	0.45	U	0.45	U	0.45	U
Methyl chloride	ug/l	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Methylene chloride	ug/l	0.47	B	1	U	1	U	0.33	B	0.33	B
Tetrachloroethylene	ug/l	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U
Trichloroethylene	ug/l	0.13		8	B	8	B	0.07		0.07	

Appendix H Data Summary Table
ILANG, 182 Airlift Wing, GPRA, Peoria, Illinois

LOCATOR: MW1 MW1 MW4
SAMPLE ID: GPA-S3C-MW1-GW1 GPA-S3C-MW1-GW2 GPA-SBG-MW4-GW1
COLLECTION DATE: 01/20/93 04/18/93 01/20/93

	UNITS:	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL
Vinyl chloride	ug/l	0.55	U	0.55	U	0.55	U
Volatiles by 8020							
1,2-Dichlorobenzene	ug/l	0.15	U	0.15	U	0.15	U
1,2-Dimethylbenzene	ug/l	0.20	U	0.20	U	0.20	U
1,3-Dichlorobenzene	ug/l	0.20	U	0.20	U	0.20	U
1,3/1,4-Dimethylbenzene	ug/l	0.50	U	0.50	U	0.50	U
1,4-Dichlorobenzene	ug/l	0.15	U	0.15	U	0.15	U
Benzene	ug/l	0.35	U	0.35	U	0.35	U
Chlorobenzene	ug/l	0.25	U	0.25	U	0.25	U
Ethylbenzene	ug/l	0.19	U	0.20	U	0.20	U
Methyl-t-Butyl Ether	ug/l	5	U	5	U	5	U
Styrene	ug/l	0.25	U	0.25	U	0.25	U
Toluene	ug/l	0.20	U	0.27	B	0.25	U
Semi-volatiles by 8070							
1,2,4-Trichlorobenzene	ug/l	10	U	10	U	10	U
1,2-Dichlorobenzene	ug/l	10	U	10	U	10	U
1,3-Dichlorobenzene	ug/l	10	U	10	U	10	U
1,4-Dichlorobenzene	ug/l	10	U	10	U	10	U
2,4,5-Trichlorophenol	ug/l	20	U	20	U	20	U
2,4,6-Trichlorophenol	ug/l	20	U	20	U	20	U
2,4-Dichlorophenol	ug/l	10	U	10	U	10	U
2,4-Dimethylphenol	ug/l	10	U	10	U	10	U
2,4-Dinitrophenol	ug/l	40	U	40	U	40	U
2,4-Dinitrotoluene	ug/l	10	U	10	U	10	U
2,6-Dinitrotoluene	ug/l	10	U	10	U	10	U
2-Chloronaphthalene	ug/l	10	U	10	U	10	U
2-Chlorophenol	ug/l	10	U	10	U	10	U
2-Methyl-4,6-Dinitrophenol	ug/l	30	U	30	U	30	U
2-Methylnaphthalene	ug/l	10	U	10	U	10	U
2-Methylphenol	ug/l	10	U	10	U	10	U
2-Nitroaniline	ug/l	10	U	10	U	10	U
2-Nitrophenol	ug/l	10	U	10	U	10	U
3,3'-Dichlorobenzidine	ug/l	10	U	10	U	10	U
3-Nitroaniline	ug/l	20	U	20	U	20	U

Appendix H Data Summary Table
ILANG, 182 Airlift Wing, GPRA, Peoria, Illinois

LOCATOR: MW1 MW1 MW4
SAMPLE ID: GPA-S3C-MW1-GW1 GPA-S3C-MW1-GW2 GPA-SBG-MW4-GW1
COLLECTION DATE: 01/20/93 04/18/93 01/20/93

	UNITS:	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL
4-Bromophenyl phenyl ether	ug/l	10	U	10	U	10	U
4-Chloro-3-methyl phenol	ug/l	10	U	10	U	10	U
4-Chloroaniline	ug/l	10	U	10	U	10	U
4-Chlorophenyl phenyl ether	ug/l	10	U	10	U	10	U
4-Methylphenol	ug/l	10	U	10	U	10	U
4-Nitroaniline	ug/l	10	U	10	U	10	U
4-Nitrophenol	ug/l	10	U	10	U	10	U
Acenaphthene	ug/l	10	U	10	U	10	U
Acenaphthylene	ug/l	10	U	10	U	10	U
Anthracene	ug/l	10	U	10	U	10	U
Benzo(a)anthracene	ug/l	10	U	10	U	10	U
Benzo(a)pyrene	ug/l	10	U	10	U	10	U
Benzo(b)fluoranthene	ug/l	10	U	10	U	10	U
Benzo(ghi)perylene	ug/l	10	U	10	U	10	U
Benzo(k)fluoranthene	ug/l	10	U	10	U	10	U
Benzoic Acid	ug/l	100	U	100	U	100	U
Benzyl Alcohol	ug/l	10	U	10	U	10	U
Butyl benzyl phthalate	ug/l	10	U	10	U	10	U
Chrysene	ug/l	10	U	10	U	10	U
Di-n-butyl phthalate	ug/l	10	U	10	U	10	U
Di-n-octyl phthalate	ug/l	10	U	10	U	10	U
Dibenzo(a,h)anthracene	ug/l	10	U	10	U	10	U
Dibenzofuran	ug/l	10	U	10	U	10	U
Diethyl phthalate	ug/l	1	B	10	U	1	B
Dimethyl phthalate	ug/l	10	U	10	U	10	U
Fluoranthene	ug/l	10	U	10	U	10	U
Fluorene	ug/l	10	U	10	U	10	U
Hexachlorobenzene	ug/l	10	U	10	U	10	U
Hexachlorobutadiene	ug/l	10	U	10	U	10	U
Hexachlorocyclopentadiene	ug/l	10	U	10	U	10	U
Hexachloroethane	ug/l	10	U	10	U	10	U
Indeno(1,2,3-c,d)pyrene	ug/l	10	U	10	U	10	U
Isophorone	ug/l	10	U	10	U	10	U
N-Nitrosodi-N-Propylamine	ug/l	10	U	10	U	10	U
N-Nitrosodiphenylamine	ug/l	10	U	10	U	10	U
Naphthalene	ug/l	10	U	10	U	10	U

Appendix H Data Summary Table
ILANG, 182 Airlift Wing, GPRA, Peoria, Illinois

LOCATOR: MW1 MW4
SAMPLE ID: GPA-S3C-MW1-GW1 GPA-S3C-MW1-GW2 GPA-SBG-MW4-GW1
COLLECTION DATE: 01/20/93 04/18/93 01/20/93

	UNITS:	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL
Nitrobenzene	ug/l	10	U	10	U	10	U
Pentachlorophenol	ug/l	20	U	20	U	20	U
Phenanthrene	ug/l	10	U	10	U	10	U
Phenol	ug/l	10	U	10	U	10	U
Pyrene	ug/l	10	U	10	U	10	U
bis(2-Chloroethoxy)methane	ug/l	10	U	10	U	10	U
bis(2-Chloroethyl) ether	ug/l	20	U	20	UJ	20	U
bis(2-Chloroisopropyl)ether	ug/l	10	U	10	U	10	U
bis(2-Ethylhexyl)phthalate	ug/l	10	U	10	U	10	U
Metals							
Aluminum	ug/l	14300		6090	J	12000	
Aluminum, Dissolved	ug/l	141	(B)	154	(B)	95.30	(B)
Antimony	ug/l	52	U	36	U	52	U
Antimony, Dissolved	ug/l	52	U	36	U	52	U
Arsenic	ug/l	3	U	4.10	()	3	U
Arsenic, Dissolved	ug/l	3	U	3	U	4.60	()
Barium	ug/l	300		735		338	
Barium, Dissolved	ug/l	213	B	187	(B)	222	B
Beryllium	ug/l	1	U	4.20	()	1	U
Beryllium, Dissolved	ug/l	1	U	1	U	1	U
Cadmium	ug/l	5	U	5.50		5	U
Cadmium, Dissolved	ug/l	5	U	5	U	5	U
Calcium	ug/l	68700	B	233000	B	84400	B
Calcium, Dissolved	ug/l	76000	B	85500	B	81400	B
Chromium	ug/l	6.30	()	8	U	8.70	()
Chromium, Dissolved	ug/l	6	U	8	U	6	U
Cobalt	ug/l	9	U	19.20	()	9	U
Cobalt, Dissolved	ug/l	9	U	8	U	9	U
Copper	ug/l	7.30	(B)	27.60	B	7.50	(B)
Copper, Dissolved	ug/l	4	U	4	U	4	U
Iron	ug/l	9750	K	1700	J	8040	K
Iron, Dissolved	ug/l	26.70	(B)	88.50	(B)	13.30	(B)
Lead	ug/l	6.20	L	29.60	L	6.20	L
Lead, Dissolved	ug/l	2	UL	2	UL	2	UL
Magnesium	ug/l	22400	B	118000	B	31100	B

Appendix H Data Summary Table
ILANG, 182 Airlift Wing, GPRA, Peoria, Illinois

LOCATOR: MW1 MW1 MW4
SAMPLE ID: GPA-S3C-MW1-GW1 GPA-S3C-MW1-GW2 GPA-SBG-MW4-GW1
COLLECTION DATE: 01/20/93 04/18/93 01/20/93

UNITS:		RESULT	QUAL	RESULT	QUAL	RESULT	QUAL
Magnesium, Dissolved	ug/l	23100	B	38900	B	27700	B
Manganese	ug/l	522	L	1380		604	L
Manganese, Dissolved	ug/l	442		157		485	
Mercury	ug/l	0.20	U	0.20	U	0.20	U
Mercury, Dissolved	ug/l	0.20	U	0.20	U	0.20	U
Nickel	ug/l	13	U	17	U	17.80	U
Nickel, Dissolved	ug/l	13	U	17	U	13	U
Potassium	ug/l	8960	B	3330	(B	8500	B
Potassium, Dissolved	ug/l	7960	B	2730	(B	6600	B
Selenium	ug/l	15	UL	3	U	3	UL
Selenium, Dissolved	ug/l	4	UL	3	UL	4	UL
Silver	ug/l	5	U	7	U	5	U
Silver, Dissolved	ug/l	5	U	7	U	5	U
Sodium	ug/l	11200	B	80600	B	12000	B
Sodium, Dissolved	ug/l	11700	B	93500	B	11800	B
Thallium	ug/l	3	UL	4	U	3	UL
Thallium, Dissolved	ug/l	3	UL	4	UL	30	UL
Vanadium	ug/l	13.70	U	10.40	U	12.10	U
Vanadium, Dissolved	ug/l	4	U	6	U	4	U
Zinc	ug/l	39.30	B	72.60	B	32.10	B
Zinc, Dissolved	ug/l	5.30	(B	8.20	(B	12.70	(B
TPH							
Total Petroleum Hydrocarbons	mg/l	0.50	B	1.70		0.70	B

Appendix H Data Summary Table ILANG, 182 Airlift Wing, GPRA, Peoria, Illinois

LOCATOR: SAMPLE ID: COLLECTION DATE:	MW2		MW2		MW2		SS1		SS2		SS2		SS3	
	GPA-SBG-MW2-SS02-04		GPA-SBG-MW2-SS04-08		GPA-SBG-SS1-O-1		GPA-SBG-SS2-O-1		GPA-SBG-SS2-O-2		GPA-SBG-SS3-O-1			
	01/19/93	01/19/93	01/19/93	01/19/93	04/18/93	04/18/93	04/18/93	04/18/93	04/18/93	04/18/93	04/18/93	04/18/93		
UNITS:	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL		
Volatiles by 8240														
1,1,1-Trichloroethane	7	U	6	U	7	U	6	U	-	U	7	U		
1,1,2,2-Tetrachloroethane	13	U	12	U	15	U	12	U	-	U	14	U		
1,1,2-Trichloroethane	7	U	6	U	7	U	6	U	-	U	7	U		
1,1-Dichloroethane	7	U	6	U	7	U	6	U	-	U	7	U		
1,1-Dichloroethylene	7	U	6	U	7	U	6	U	-	U	7	U		
1,2-Dichloroethane	7	U	6	U	7	U	6	U	-	U	7	U		
1,2-Dichloroethylene	7	U	6	U	7	U	6	U	-	U	7	U		
1,2-Dichloropropane	7	U	6	U	7	U	6	U	-	U	7	U		
1,3-cis-Dichloropropylene	7	U	6	U	7	U	6	U	-	U	7	U		
1,3-trans-Dichloropropylene	7	U	6	U	7	U	6	U	-	U	7	U		
2-Butanone	13	U	12	U	15	U	12	U	-	U	14	U		
2-Hexanone	20	U	19	U	22	U	19	U	-	U	22	U		
2-Propanone	28	B	45	B	34	B	27	B	-	B	20	B		
4-Methyl-2-pentanone	20	U	19	U	22	U	19	U	-	U	22	U		
Benzene	7	U	6	U	7	U	6	U	-	U	7	U		
Bromodichloromethane	7	U	6	U	7	U	6	U	-	U	7	U		
Bromoform	13	U	12	U	15	U	12	U	-	U	14	U		
Carbon Disulfide	7	U	6	U	7	U	6	U	-	U	7	U		
Carbon Tetrachloride	7	U	6	U	7	U	6	U	-	U	7	U		
Chlorobenzene	7	U	6	U	7	U	6	U	-	U	7	U		
Chloroethane	13	U	12	U	15	U	12	U	-	U	14	U		
Chloroform	7	U	6	U	7	U	6	U	-	B	7	U		
Dibromochloromethane	7	U	6	U	7	U	6	U	-	U	7	U		
Ethylbenzene	7	U	6	U	7	U	6	U	-	U	7	U		
Methyl bromide	7	U	6	U	7	U	6	U	-	U	7	U		
Methyl chloride	13	U	12	U	15	U	12	U	-	U	14	U		
Methylene chloride	83	B	52	B	23	B	45	B	-	B	22	B		
Styrene	7	U	6	U	7	U	6	U	-	U	7	U		
Tetrachloroethylene	7	U	6	U	7	U	6	U	-	U	7	U		
Toluene	7	U	6	U	7	U	6	U	-	U	7	U		
Trichloroethylene	7	U	6	U	7	U	6	U	-	U	7	U		
Vinyl Acetate	13	U	12	U	15	U	12	U	-	U	14	U		
Vinyl chloride	13	U	12	U	15	U	12	U	-	U	14	U		
Xylenes (TOTAL)	7	U	6	U	7	U	6	U	-	U	7	U		
Semi-volatiles by 8070														
1,2,4-Trichlorobenzene	440	U	410	U	480	U	410	U	-	U	480	U		

Appendix H Data Summary Table ILANG, 182 Airlift Wing, GPRA, Peoria, Illinois

LOCATOR:		MW2		MW2		SS1		SS2		SS2		SS3	
SAMPLE ID:		GPA-SBG-MW2-SS02-04		GPA-SBG-MW2-SS04-06		GPA-SBG-SS1-0-1		GPA-SBG-SS2-0-1		GPA-SBG-SS2-0-2		GPA-SBG-SS3-0-1	
COLLECTION DATE:		01/19/93		01/19/93		04/18/93		04/18/93		04/18/93		04/18/93	
UNITS:		RESULT	QUAL	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL
1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 2,4,5-Trichlorophenol 2,4,6-Trichlorophenol 2,4-Dichlorophenol 2,4-Dimethylphenol 2,4-Dinitrophenol 2,4-Dinitrotoluene 2,6-Dinitrotoluene 2-Chloronaphthalene 2-Chlorophenol 2-Methyl-4,6-Dinitrophenol 2-Methylnaphthalene 2-Methylphenol 2-Nitroaniline 2-Nitrophenol 3,3'-Dichlorobenzidine 3-Nitroaniline 4-Bromophenyl phenyl ether 4-Chloro-3-methyl phenol 4-Chloroaniline 4-Chlorophenyl phenyl ether 4-Methylphenol 4-Nitroaniline 4-Nitrophenol Acenaphthene Acenaphthylene Anthracene Benzo(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(ghi)perylene Benzo(k)fluoranthene Benzoic Acid Benzyl Alcohol	ug/kg	440	U	410	U	480	U	410	U	-	U	480	U
	ug/kg	440	U	410	U	480	U	410	U	-	U	480	U
	ug/kg	440	U	410	U	480	U	410	U	-	U	480	U
	ug/kg	870	U	820	U	960	U	810	U	-	U	950	U
	ug/kg	870	U	820	U	960	U	810	U	-	U	950	U
	ug/kg	440	U	410	U	480	U	410	U	-	U	480	U
	ug/kg	440	U	410	U	480	U	410	U	-	U	480	U
	ug/kg	1700	U	1600	U	1900	U	1600	U	-	U	1900	U
	ug/kg	440	U	410	U	480	U	410	U	-	U	480	U
	ug/kg	440	U	410	U	480	U	410	U	-	U	480	U
	ug/kg	440	U	410	U	480	U	410	U	-	U	480	U
	ug/kg	440	U	410	U	480	U	410	U	-	U	480	U
	ug/kg	440	U	410	U	480	U	410	U	-	U	480	U
	ug/kg	1300	U	1200	U	1400	U	1200	U	-	U	1400	U
	ug/kg	440	U	410	U	480	U	410	U	-	U	480	U
	ug/kg	440	U	410	U	480	U	410	U	-	U	480	U
	ug/kg	440	U	410	U	480	U	410	U	-	U	480	U
	ug/kg	440	U	410	U	480	U	410	U	-	U	480	U
	ug/kg	870	U	820	U	960	U	810	U	-	U	950	U
	ug/kg	440	U	410	U	480	U	410	U	-	U	480	U
ug/kg	440	U	410	U	480	U	410	U	-	U	480	U	
ug/kg	440	U	410	U	480	U	410	U	-	U	480	U	
ug/kg	440	U	410	U	480	U	410	U	-	U	480	U	
ug/kg	440	U	410	U	480	U	410	U	-	U	480	U	
ug/kg	440	U	410	U	480	U	410	U	-	U	480	U	
ug/kg	440	U	410	U	480	U	410	U	-	U	480	U	
ug/kg	440	U	410	U	480	U	410	U	-	U	480	U	
ug/kg	440	U	410	U	480	U	410	U	-	U	480	U	
ug/kg	440	U	410	U	480	U	410	U	-	U	480	U	
ug/kg	440	U	410	U	480	U	410	U	-	U	480	U	
ug/kg	440	U	410	U	480	U	410	U	-	U	480	U	
ug/kg	440	U	410	U	480	U	410	U	-	U	480	U	
ug/kg	440	U	410	U	480	U	410	U	-	U	480	U	
ug/kg	440	U	410	U	480	U	410	U	-	U	480	U	
ug/kg	440	U	410	U	480	U	410	U	-	U	480	U	
ug/kg	440	U	410	U	480	U	410	U	-	U	480	U	
ug/kg	440	U	410	U	480	U	410	U	-	U	480	U	
ug/kg	440	U	410	U	480	U	410	U	-	U	480	U	
ug/kg	440	U	410	U	480	U	410	U	-	U	480	U	
ug/kg	440	U	410	U	480	U	410	U	-	U	480	U	
ug/kg	440	U	410	U	480	U	410	U	-	U	480	U	
ug/kg	440	U	410	U	480	U	410	U	-	U	480	U	
ug/kg	440	U	410	U	480	U	410	U	-	U	480	U	
ug/kg	440	U	410	U	480	U	410	U	-	U	480	U	
ug/kg	440	U	410	U	480	U	410	U	-	U	480	U	
ug/kg	440	U	410	U	480	U	410	U	-	U	480	U	
ug/kg	440	U	410	U	480	U	410	U	-	U	480	U	
ug/kg	440	U	410	U	480	U	410	U	-	U	480	U	
ug/kg	440	U	410	U	480	U	410	U	-	U	480	U	
ug/kg	440	U	410	U	480	U	410	U	-	U	480	U	
ug/kg	440	U	410	U	480	U	410	U	-	U	480	U	
ug/kg	440	U	410	U	480	U	410	U	-	U	480	U	
ug/kg	440	U	410	U	480	U	410	U	-	U	480	U	
ug/kg	440	U	410	U	480	U	410	U	-	U	480	U	
ug/kg	440	U	410	U	480	U	410	U	-	U	480	U	
ug/kg	440	U	410	U	480	U	410	U	-	U	480	U	
ug/kg	440	U	410	U	480	U	410	U	-	U	480	U	
ug/kg	440	U	410	U	480	U	410	U	-	U	480	U	
ug/kg	440	U	410	U	480	U	410	U	-	U	480	U	
ug/kg	440	U	410	U	480	U	410	U	-	U	480	U	
ug/kg	440	U	410	U	480	U	410	U	-	U	480	U	
ug/kg	440	U	410	U	480	U	410	U	-	U	480	U	
ug/kg	440	U	410	U	480	U	410	U	-	U	480	U	
ug/kg	440	U	410	U	480	U	410	U	-	U	480	U	
ug/kg	440	U	410	U	480	U	410	U	-	U	480	U	
ug/kg	440	U	410	U	480	U	410	U	-	U	480	U	
ug/kg	440	U	410	U	480	U	410	U	-	U	480	U	
ug/kg	440	U	410	U	480	U	410	U	-	U	480	U	
ug/kg	440	U	410	U	480	U	410	U	-	U	480	U	
ug/kg	440	U	410	U	480	U	410	U	-	U	480	U	
ug/kg	440	U											

Appendix H Data Summary Table ILANG, 182 Airlift Wing, GPRA, Peoria, Illinois

LOCATOR: MW2 MW2 SS1 SS2 SS2 SS3
SAMPLE ID: GPA-SBG-MW2-SS02-04 GPA-SBG-MW2-SS04-06 GPA-SBG-SS1-O-1 GPA-SBG-SS2-O-1 GPA-SBG-SS2-O-2 GPA-SBG-SS3-O-1
COLLECTION DATE: 01/19/93 01/19/93 04/18/93 04/18/93 04/18/93 04/18/93

	MW2		MW2		SS1		SS2		SS2		SS3	
	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL
UNITS:	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL
ug/kg												
Butyl benzyl phthalate	440	U	410	U	480	U	410	U	-	-	480	U
Chrysene	440	U	410	U	480	U	89	-	-	-	480	U
Di-n-butyl phthalate	440	U	410	U	480	U	410	U	-	-	480	U
Di-n-octyl phthalate	440	U	410	U	480	U	410	U	-	-	480	U
Dibenzo(a,h)anthracene	440	U	410	U	480	U	410	U	-	-	480	U
Dibenzofuran	440	U	410	U	480	U	410	U	-	-	480	U
Diethyl phthalate	440	U	410	U	480	U	410	U	-	-	480	U
Dimethyl phthalate	440	U	410	U	480	U	410	U	-	-	480	U
Fluoranthene	440	U	410	U	110	U	170	U	-	-	480	U
Fluorene	440	U	410	U	480	U	410	U	-	-	480	U
Hexachlorobenzene	440	U	410	U	480	U	410	U	-	-	480	U
Hexachlorobutadiene	440	U	410	U	480	U	410	U	-	-	480	U
Hexachlorocyclopentadiene	440	U	410	U	480	U	410	U	-	-	480	U
Hexachloroethane	440	U	410	U	480	U	410	U	-	-	480	U
Indeno(1,2,3-c,d)pyrene	440	U	410	U	480	U	410	U	-	-	480	U
Isophorone	440	U	410	U	480	U	410	U	-	-	480	U
N-Nitrosodi-N-Propylamine	440	U	410	U	480	U	410	U	-	-	480	U
N-Nitrosodiphenylamine	440	U	410	U	480	U	410	U	-	-	480	U
Naphthalene	440	U	410	U	480	U	410	U	-	-	480	U
Nitrobenzene	440	U	410	U	480	U	410	U	-	-	480	U
Pentachlorophenol	870	U	820	U	960	U	810	U	-	-	950	U
Phenanthrene	440	U	410	U	49	U	55	U	-	-	480	U
Phenol	440	U	410	U	480	U	410	U	-	-	480	U
Pyrene	440	U	410	U	110	U	170	U	-	-	480	U
bis(2-Chloroethoxy)methane	440	U	410	U	480	U	410	U	-	-	480	U
bis(2-Chloroethyl) ether	870	U	820	U	960	U	810	U	-	-	950	U
bis(2-Chloroisopropyl)ether	440	U	410	U	480	U	410	U	-	-	480	U
bis(2-Ethylhexyl)phthalate	440	U	410	U	480	U	410	U	-	-	480	U

Metals												
Aluminum	11900	UL	2230	UL	8890	UL	8680	UL	13100	UL		
Antimony	15.30		14.20		13.50		11.50		13.40			
Arsenic	23.10		10.90		6.60		8.70		9.20			
Barium	121		16.50		111		198		137			
Beryllium	0.80	U	0.75	U	0.59	U	0.62	U	1	U		
Cadmium	1.30	U	1.20	U	1.50	U	1.30	U	1.50	U		

Appendix H Data Summary Table ILANG, 182 Airlift Wing, GPRA, Peoria, Illinois

LOCATOR: MW2
SAMPLE ID: GPA-SBG-MW2-SS02-04
COLLECTION DATE: 01/19/93

MW2
GPA-SBG-MW2-SS04-06
01/19/93

SS1
GPA-SBG-SS1-0-1
04/18/93

SS2
GPA-SBG-SS2-0-1
04/18/93

SS2
GPA-SBG-SS2-0-2
04/18/93

SS3
GPA-SBG-SS3-0-1
04/18/93

	UNITS:	MW2		MW2		SS1		SS2		SS2		SS3	
		RESULT	QUAL	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL
Calcium	mg/kg	6050		146000		2730		2510		-		4090	
Chromium	mg/kg	15.50		7.90		12.40		11.60		-		17.50	
Cobalt	mg/kg	7.80	()	4.80	()	2.80	()	12.50	()	-		8.40	()
Copper	mg/kg	15.80		8.80		12.10		9.20		-		16.40	
Iron	mg/kg	17400		10500		10500		13800		-		17200	
Lead	mg/kg	19.90	L	21.40	L	40.80	J	33.90	J	-		45.50	J
Magnesium	mg/kg	5220		57600		1750		1740		-		2770	
Manganese	mg/kg	611		654		414		1510		-		753	
Mercury	mg/kg	0.13	U	0.12	U	0.15	U	0.13	U	-		0.15	U
Nickel	mg/kg	19.60		10.90		14.10		9.90	()	-		14.80	
Potassium	mg/kg	1650		1380		1290	()	913	()	-		1590	
Selenium	mg/kg	0.80	U	0.75	U	0.88	U	0.75	U	-		0.87	U
Silver	mg/kg	2.70	U	2.50	U	2.90	U	2.50	U	-		2.90	U
Sodium	mg/kg	246	()	290		180	()K	113	()B	-		174	()K
Thallium	mg/kg	0.80	U	0.75	U	1.20	U	1	U	-		1.20	U
Vanadium	mg/kg	23.60		9	()	19.60		34.30		-		33.80	
Zinc	mg/kg	62.20		40.90		74.80	J	43	J	-		81	J
TPH													
Total Petroleum Hydrocarbons	mg/kg	19		19.10		74		20.20		8.10		97.90	

Appendix H Data Summary Table ILANG, 182 Airlift Wing, GPRA, Peoria, Illinois

LOCATOR: SB1 SB1 SB1 SB1 SB1 SB1 SB1
SAMPLE ID: GPA-SBG-SB1-SS0-2 GPA-SBG-SB1-SS2-4 GPA-SBG-SB1-SS4-6 GPA-SBG-SB1-SS6-8 GPA-SBG-SB1-SS8-10
COLLECTION DATE: 12/10/92 12/10/92 12/10/92 12/10/92 12/10/92

	UNITS:		SB1		SB1		SB1		SB1		SB1		SB1	
	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL
Volatiles by 8240														
1,1,1-Trichloroethane	ug/kg	5	U	6	U	6	U	6	U	6	U	6	U	U
1,1,2,2-Tetrachloroethane	ug/kg	11	U	13	U	13	U	12	U	12	U	12	U	U
1,1,2-Trichloroethane	ug/kg	5	U	6	U	6	U	6	U	6	U	6	U	U
1,1-Dichloroethane	ug/kg	5	U	6	U	6	U	6	U	6	U	6	U	U
1,1-Dichloroethylene	ug/kg	5	U	6	U	6	U	6	U	6	U	6	U	U
1,2-Dichloroethane	ug/kg	5	U	6	U	6	U	6	U	6	U	6	U	U
1,2-Dichloroethylene	ug/kg	5	U	6	U	6	U	6	U	6	U	6	U	U
1,2-Dichloropropane	ug/kg	5	U	6	U	6	U	6	U	6	U	6	U	U
1,3-cis-Dichloropropylene	ug/kg	5	U	6	U	6	U	6	U	6	U	6	U	U
1,3-trans-Dichloropropylene	ug/kg	5	U	6	U	6	U	6	U	6	U	6	U	U
2-Butanone	ug/kg	11	U	13	U	13	U	12	U	12	U	12	U	U
2-Hexanone	ug/kg	16	U	19	U	19	U	18	U	18	U	19	U	U
2-Propanone	ug/kg	16	B	18	B	18	B	20	B	43	B	19	B	U
4-Methyl-2-pentanone	ug/kg	16	U	19	U	19	U	18	U	18	U	19	U	U
Benzene	ug/kg	5	U	6	U	6	U	6	U	6	U	6	U	U
Bromodichloromethane	ug/kg	5	U	6	U	6	U	6	U	6	U	6	U	U
Bromoform	ug/kg	11	U	13	U	13	U	12	U	12	U	12	U	U
Carbon Disulfide	ug/kg	5	U	6	U	6	U	6	U	6	U	6	U	U
Carbon Tetrachloride	ug/kg	5	U	6	U	6	U	6	U	6	U	6	U	U
Chlorobenzene	ug/kg	5	U	6	U	6	U	6	U	6	U	6	U	U
Chloroethane	ug/kg	11	U	13	U	13	U	12	U	12	U	12	U	U
Chloroform	ug/kg	5	U	1	B	2	B	6	U	6	U	6	U	U
Dibromochloromethane	ug/kg	5	U	6	U	6	U	6	U	6	U	6	U	U
Ethylbenzene	ug/kg	5	U	6	U	6	U	6	U	6	U	6	U	U
Methyl bromide	ug/kg	5	U	6	U	6	U	6	U	6	U	6	U	U
Methyl chloride	ug/kg	11	U	13	U	13	U	12	U	12	U	12	U	U
Methylene chloride	ug/kg	33	B	21	B	53	B	36	B	30	B	30	B	U
Styrene	ug/kg	5	U	6	U	6	U	6	U	6	U	6	U	U
Tetrachloroethylene	ug/kg	5	U	6	U	6	U	6	U	6	U	6	U	U
Toluene	ug/kg	5	U	6	U	6	U	6	U	6	U	6	U	U
Trichloroethylene	ug/kg	5	U	6	U	6	U	6	U	6	U	6	U	U
Vinyl Acetate	ug/kg	11	U	13	U	13	U	12	U	12	U	12	U	U
Vinyl chloride	ug/kg	11	U	13	U	13	U	12	U	12	U	12	U	U
Xylenes (TOTAL)	ug/kg	5	U	6	U	6	U	6	U	6	U	6	U	U
Semi-volatiles by 8070														
1,2,4-Trichlorobenzene	ug/kg	-		420	U	420	U	400	U	-	U	-	U	

Appendix H Data Summary Table ILANG, 182 Airlift Wing, GPRA, Peoria, Illinois

LOCATOR: SB1 SB1 SB1 SB1 SB1 SB1 SB1
SAMPLE ID: GPA-SBG-SB1-SS0-2 GPA-SBG-SB1-SS2-4 GPA-SBG-SB1-SS4-6 GPA-SBG-SB1-SS6-8 GPA-SBG-SB1-SS8-10
COLLECTION DATE: 12/10/92 12/10/92 12/10/92 12/10/92 12/10/92

UNITS:	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL
1,2-Dichlorobenzene	ug/kg	-	420	U	420	U	400	U	-	-	-	-
1,3-Dichlorobenzene	ug/kg	-	420	U	420	U	400	U	-	-	-	-
1,4-Dichlorobenzene	ug/kg	-	420	U	420	U	400	U	-	-	-	-
2,4,5-Trichlorophenol	ug/kg	-	840	U	840	U	800	U	-	-	-	-
2,4,6-Trichlorophenol	ug/kg	-	840	U	840	U	800	U	-	-	-	-
2,4-Dichlorophenol	ug/kg	-	420	U	420	U	400	U	-	-	-	-
2,4-Dimethylphenol	ug/kg	-	420	U	420	U	400	U	-	-	-	-
2,4-Dinitrophenol	ug/kg	-	1600	U	1600	U	1600	U	-	-	-	-
2,4-Dinitrotoluene	ug/kg	-	420	U	420	U	400	U	-	-	-	-
2,6-Dinitrotoluene	ug/kg	-	420	U	420	U	400	U	-	-	-	-
2-Chloronaphthalene	ug/kg	-	420	U	420	U	400	U	-	-	-	-
2-Chlorophenol	ug/kg	-	420	U	420	U	400	U	-	-	-	-
2-Methyl-4,6-Dinitrophenol	ug/kg	-	1300	U	1300	U	1200	U	-	-	-	-
2-Methylnaphthalene	ug/kg	-	420	U	420	U	400	U	-	-	-	-
2-Methylphenol	ug/kg	-	420	U	420	U	400	U	-	-	-	-
2-Nitroaniline	ug/kg	-	420	U	420	U	400	U	-	-	-	-
2-Nitrophenol	ug/kg	-	420	U	420	U	400	U	-	-	-	-
3,3'-Dichlorobenzidine	ug/kg	-	420	U	420	U	400	U	-	-	-	-
3-Nitroaniline	ug/kg	-	840	U	840	U	800	U	-	-	-	-
4-Bromophenyl phenyl ether	ug/kg	-	420	U	420	U	400	U	-	-	-	-
4-Chloro-3-methyl phenol	ug/kg	-	420	U	420	U	400	U	-	-	-	-
4-Chloroaniline	ug/kg	-	420	U	420	U	400	U	-	-	-	-
4-Chlorophenyl phenyl ether	ug/kg	-	420	U	420	U	400	U	-	-	-	-
4-Methylphenol	ug/kg	-	420	U	420	U	400	U	-	-	-	-
4-Nitroaniline	ug/kg	-	840	U	840	U	800	U	-	-	-	-
4-Nitrophenol	ug/kg	-	420	U	420	U	400	U	-	-	-	-
Acenaphthene	ug/kg	-	420	U	420	U	400	U	-	-	-	-
Acenaphthylene	ug/kg	-	420	U	420	U	400	U	-	-	-	-
Anthracene	ug/kg	-	420	U	420	U	400	U	-	-	-	-
Benzo(a)anthracene	ug/kg	-	420	U	420	U	400	U	-	-	-	-
Benzo(a)pyrene	ug/kg	-	420	U	420	U	400	U	-	-	-	-
Benzo(b)fluoranthene	ug/kg	-	420	U	420	U	400	U	-	-	-	-
Benzo(ghi)perylene	ug/kg	-	420	U	420	U	400	U	-	-	-	-
Benzo(k)fluoranthene	ug/kg	-	420	U	420	U	400	U	-	-	-	-
Benzoic Acid	ug/kg	-	4200	U	4200	U	4000	U	-	-	-	-
Benzyl Alcohol	ug/kg	-	420	U	420	U	400	U	-	-	-	-

Appendix H Data Summary Table
ILANG, 182 Airlift Wing, GPRA, Peoria, Illinois

LOCATOR: SB1 SB1 SB1 SB1 SB1
SAMPLE ID: GPA-SBG-SB1-SS0-2 GPA-SBG-SB1-SS2-4 GPA-SBG-SB1-SS4-6 GPA-SBG-SB1-SS6-8 GPA-SBG-SB1-SS8-10
COLLECTION DATE: 12/10/92 12/10/92 12/10/92 12/10/92 12/10/92

	UNITS:	SB1		SB1		SB1		SB1		SB1	
		RESULT	QUAL	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL
Butyl benzyl phthalate	ug/kg	-		420	U	420	U	400	U	-	
Chrysene	ug/kg	-		420	U	420	U	400	U	-	
Di-n-butyl phthalate	ug/kg	-		420	U	420	U	400	U	-	
Di-n-octyl phthalate	ug/kg	-		420	U	420	U	400	U	-	
Dibenzo(a,h)anthracene	ug/kg	-		420	U	420	U	400	U	-	
Dibenzofuran	ug/kg	-		420	U	420	U	400	U	-	
Diethyl phthalate	ug/kg	-		420	U	420	U	400	U	-	
Dimethyl phthalate	ug/kg	-		420	U	420	U	400	U	-	
Fluoranthene	ug/kg	-		420	U	420	U	400	U	-	
Fluorene	ug/kg	-		420	U	420	U	400	U	-	
Hexachlorobenzene	ug/kg	-		420	U	420	U	400	U	-	
Hexachlorobutadiene	ug/kg	-		420	U	420	U	400	U	-	
Hexachlorocyclopentadiene	ug/kg	-		420	U	420	U	400	U	-	
Hexachloroethane	ug/kg	-		420	U	420	U	400	U	-	
Indeno(1,2,3-c,d)pyrene	ug/kg	-		420	U	420	U	400	U	-	
Isophorone	ug/kg	-		420	U	420	U	400	U	-	
N-Nitrosodi-N-Propylamine	ug/kg	-		420	U	420	U	400	U	-	
N-Nitrosodiphenylamine	ug/kg	-		420	U	420	U	400	U	-	
Naphthalene	ug/kg	-		420	U	420	U	400	U	-	
Nitrobenzene	ug/kg	-		420	U	420	U	400	U	-	
Pentachlorophenol	ug/kg	-		840	U	840	U	800	U	-	
Phenanthrene	ug/kg	-		420	U	420	U	400	U	-	
Phenol	ug/kg	-		420	U	420	U	400	U	-	
Pyrene	ug/kg	-		420	U	420	U	400	U	-	
bis(2-Chloroethoxy)methane	ug/kg	-		420	U	420	U	400	U	-	
bis(2-Chloroethyl) ether	ug/kg	-		840	U	840	U	800	U	-	
bis(2-Chloroisopropyl)ether	ug/kg	-		420	U	420	U	400	U	-	
bis(2-Ethylhexyl)phthalate	ug/kg	-		420	U	420	U	400	U	-	
Metals											
Aluminum	mg/kg	-		21300		14800		9190		6800	
Antimony	mg/kg	-		14.90	UJ	14.60	UJ	13.80	UJ	14	UJ
Arsenic	mg/kg	-		9.90	J	4.30	J	7.50	J	1.30	0
Barium	mg/kg	-		116		148		158		61.10	
Beryllium	mg/kg	-		0.66	0	0.71	0	0.49	U	0.49	U
Cadmium	mg/kg	-		1.30	U	1.30	U	1.20	U	1.20	U

Appendix H Data Summary Table ILANG, 182 Airlift Wing, GPRA, Peoria, Illinois

LOCATOR: SB1 SB1 SB1 SB1 SB1
 SAMPLE ID: GPA-SBG-SB1-SS0-2 GPA-SBG-SB1-SS2-4 GPA-SBG-SB1-SS4-6 GPA-SBG-SB1-SS6-8 GPA-SBG-SB1-SS8-10
 COLLECTION DATE: 12/10/92 12/10/92 12/10/92 12/10/92 12/10/92

UNITS:		RESULT	QUAL	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL
Calcium	mg/kg	-		2890		3510		37800		50900	
Chromium	mg/kg	-		23.50		20.30		13.80		10.30	
Cobalt	mg/kg	-		5.80	()	4	()	6.40	()	4.80	()
Copper	mg/kg	-		23.10		13.20		9.50		9.70	
Iron	mg/kg	-		26400		16500		12000		8850	
Lead	mg/kg	-		13.70	J	8	J	8	J	6.80	J
Magnesium	mg/kg	-		4400		3970		24000		31600	
Manganese	mg/kg	-		309		273		352		243	
Mercury	mg/kg	-		0.13	UJ	0.13	UJ	0.12	UJ	0.12	UJ
Nickel	mg/kg	-		24.10		19.60		15.10		10.50	
Potassium	mg/kg	-		1470		1390		1180	U	1200	U
Selenium	mg/kg	-		0.78	UJ	0.77	UJ	0.73	UJ	0.74	UJ
Silver	mg/kg	-		2.60	U	2.60	U	2.40	U	2.50	U
Sodium	mg/kg	-		561		348		234		219	
Thallium	mg/kg	-		0.78	U	0.77	U	0.73		0.74	
Vanadium	mg/kg	-		40.80		22.80		20.50	U	19.30	U
Zinc	mg/kg	-		74.10	L	59.70	L	34.40	L	28	L
TPH											
Total Petroleum Hydrocarbons	mg/kg	289		79.70		33.60		40.80		50.20	

Appendix H Data Summary Table ILANG, 182 Airlift Wing, GPRA, Peoria, Illinois

LOCATOR: SAMPLE ID: COLLECTION DATE:	MW1		MW1		MW2		MW2		MW3	
	GPA-SBG-MW1-GW1		GPA-SBG-MW1-GW2		GPA-SBG-MW2-GW1		GPA-SBG-MW2-GW2		GPA-SBG-MW3-GW2	
	01/20/94	04/17/93	01/20/94	04/17/93	01/20/93	04/17/93	01/20/93	04/18/93	01/20/93	04/18/93
UNITS:	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL
Volatiles by 8010										
1,1,1,2-Tetrachloroethane	ug/l	0.35	U	0.35	0.35	U	0.35	U	0.35	U
1,1,1-Trichloroethane	ug/l	0.10	U	0.35	0.35	U	0.35	U	0.35	U
1,1,2,2-Tetrachloroethane	ug/l	0.40	U	0.40	0.40	U	0.40	U	0.40	U
1,1,2-Trichloroethane	ug/l	0.25	U	0.25	0.25	U	0.25	U	0.25	U
1,1-Dichloroethane	ug/l	0.35	U	0.35	0.35	U	0.35	U	0.35	U
1,1-Dichloroethylene	ug/l	0.35	U	0.35	0.35	U	0.35	U	0.35	U
1,2,3-Trichloropropane	ug/l	0.35	U	0.35	0.35	U	0.35	U	0.35	U
1,2-Dibromoethane	ug/l	-	U	0.35	-	U	0.35	U	0.35	U
1,2-Dibromomethane	ug/l	0.35	U	-	0.35	U	-	U	-	U
1,2-Dichlorobenzene	ug/l	0.30	U	0.30	0.30	U	0.30	U	0.30	U
1,2-Dichloroethane	ug/l	0.25	U	0.25	0.25	U	0.25	U	0.25	U
1,2-Dichloropropane	ug/l	0.30	U	0.30	0.30	U	0.30	U	0.30	U
1,2-trans-Dichloroethylene	ug/l	0.07	U	0.30	0.30	U	0.30	U	0.30	U
1,3-Dichlorobenzene	ug/l	0.20	U	0.20	0.20	U	0.20	U	0.20	U
1,3-cis-Dichloropropylene	ug/l	0.30	U	0.30	0.30	U	0.30	U	0.30	U
1,3-trans-Dichloropropylene	ug/l	0.25	U	0.25	0.25	U	0.25	U	0.25	U
1,4-Dichlorobenzene	ug/l	0.20	U	0.20	0.20	U	0.20	U	0.20	U
2-Chloroethylvinyl ether	ug/l	0.40	U	0.40	0.40	U	0.40	U	0.40	U
2-Chlorotoluene	ug/l	0.25	U	0.25	0.25	U	0.25	U	0.25	U
4-Chlorotoluene	ug/l	0.35	U	0.35	0.35	U	0.35	U	0.35	U
Bromobenzene	ug/l	0.85	U	0.85	0.85	U	0.85	U	0.85	U
Bromochloromethane	ug/l	0.25	U	0.25	0.25	U	0.25	U	0.25	U
Bromodichloromethane	ug/l	0.40	U	0.40	0.40	U	0.40	U	0.40	U
Bromoform	ug/l	0.50	U	0.50	0.50	U	0.50	U	0.50	U
Carbon Tetrachloride	ug/l	0.35	U	0.35	0.35	U	0.35	U	0.35	U
Chlorobenzene	ug/l	0.35	U	0.35	0.35	U	0.35	U	0.35	U
Chloroethane	ug/l	0.50	U	0.50	0.50	U	0.50	U	0.50	U
Chloroform	ug/l	1.20	B	0.35	0.35	U	0.35	U	0.35	U
Dibromochloromethane	ug/l	0.30	U	0.30	0.30	U	0.30	U	0.30	U
Dibromomethane	ug/l	0.40	U	0.40	0.40	U	0.40	U	0.40	U
Methyl bromide	ug/l	0.45	U	0.45	0.45	U	0.45	U	0.45	U
Methyl chloride	ug/l	0.50	U	0.50	0.50	U	0.50	U	0.50	U
Methylene chloride	ug/l	0.66	B	1	0.23	B	0.19	B	0.36	B
Tetrachloroethylene	ug/l	0.30	U	0.30	0.30	U	0.30	U	0.30	U
Trichloroethylene	ug/l	3.60	U	1.40	0.30	U	0.30	U	0.30	U

Appendix H Data Summary Table ILANG, 182 Airlift Wing, GPRA, Peoria, Illinois

LOCATOR:											
SAMPLE ID:											
COLLECTION DATE:											
UNITS:											
MW1		MW1		MW2		MW2		MW2		MW3	
GPA-SBG-MW1-GW1	01/20/94	GPA-SBG-MW1-GW2	04/17/93	GPA-SBG-MW2-GW1	01/20/93	GPA-SBG-MW2-GW2	04/18/93	GPA-SBG-MW2-GW2	04/18/93	GPA-SBG-MW3-GW2	04/18/93
RESULT	QUAL	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL
ug/l	0.55	U	0.55	U	0.55	U	0.55	U	0.55	U	0.55
Volatiles by 8020											
1,2-Dichlorobenzene	ug/l	0.15	U	0.10	U	0.09	U	0.15	U	0.15	U
1,2-Dimethylbenzene	ug/l	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U
1,3-Dichlorobenzene	ug/l	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U
1,3/1,4-Dimethylbenzene	ug/l	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,4-Dichlorobenzene	ug/l	0.07	U	0.15	U	0.15	U	0.15	U	0.15	U
Benzene	ug/l	0.35	U	0.35	U	0.35	U	0.35	U	0.35	U
Chlorobenzene	ug/l	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U
Ethylbenzene	ug/l	0.25	U	0.20	U	0.22	U	0.20	U	0.20	U
Methyl-t-Butyl Ether	ug/l	5	U	5	U	5	U	5	U	5	U
Styrene	ug/l	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U
Toluene	ug/l	0.25	U	0.72	B	0.32	B	0.83	B	0.29	B
Semi-volatiles by 8070											
1,2,4-Trichlorobenzene	ug/l	10	U	10	U	10	U	10	U	10	U
1,2-Dichlorobenzene	ug/l	10	R	10	U	10	U	10	U	10	U
1,3-Dichlorobenzene	ug/l	10	U	10	U	10	U	10	U	10	U
1,4-Dichlorobenzene	ug/l	10	U	10	U	10	U	10	U	10	U
2,4,5-Trichlorophenol	ug/l	10	R	20	R	20	U	20	U	20	U
2,4,6-Trichlorophenol	ug/l	10	R	20	R	20	U	20	U	20	U
2,4-Dichlorophenol	ug/l	10	U	10	R	10	U	10	U	10	U
2,4-Dimethylphenol	ug/l	10	U	10	R	10	U	10	U	10	U
2,4-Dinitrophenol	ug/l	10	R	40	R	40	U	40	U	40	U
2,4-Dinitrotoluene	ug/l	10	U	10	U	10	U	10	U	10	U
2,6-Dinitrotoluene	ug/l	10	U	10	U	10	U	10	U	10	U
2-Chloronaphthalene	ug/l	10	U	10	U	10	U	10	U	10	U
2-Chlorophenol	ug/l	10	U	10	R	10	U	10	U	10	U
2-Methyl-4,6-Dinitrophenol	ug/l	10	R	30	R	30	U	30	U	30	U
2-Methylnaphthalene	ug/l	10	U	10	U	10	U	10	U	10	U
2-Methylphenol	ug/l	10	R	10	R	10	U	10	U	10	U
2-Nitroaniline	ug/l	10	U	10	U	10	U	10	U	10	U
2-Nitrophenol	ug/l	10	U	10	U	10	U	10	U	10	U
3,3'-Dichlorobenzidine	ug/l	10	U	10	U	10	U	10	U	10	U
3-Nitroaniline	ug/l	20	U	20	U	20	U	20	U	20	U

Appendix H Data Summary Table
ILANG, 182 Airlift Wing, GPRA, Peoria, Illinois

LOCATOR:		MW1		MW1		MW2		MW2		MW3	
SAMPLE ID:		GPA-SBG-MW1-GW1		GPA-SBG-MW1-GW2		GPA-SBG-MW2-GW1		GPA-SBG-MW2-GW2		GPA-SBG-MW3-GW2	
COLLECTION DATE:		01/20/94		04/17/93		01/20/93		04/18/93		04/18/93	
UNITS:		RESULT	QUAL	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL
4-Bromophenyl phenyl ether	ug/l	10	U	10	U	10	U	10	U	10	U
4-Chloro-3-methyl phenol	ug/l	10	U	10	R	10	U	10	U	10	U
4-Chloroaniline	ug/l	10	U	10	U	10	U	10	U	10	U
4-Chlorophenyl phenyl ether	ug/l	10	U	10	U	10	U	10	U	10	U
4-Methylphenol	ug/l	10	R	10	R	10	U	10	U	10	U
4-Nitroaniline	ug/l	10	U	10	U	10	U	10	U	10	U
4-Nitrophenol	ug/l	10	R	10	R	10	U	10	U	10	U
Acenaphthene	ug/l	10	U	10	U	10	U	10	U	10	U
Acenaphthylene	ug/l	10	U	10	U	10	U	10	U	10	U
Anthracene	ug/l	10	U	10	U	10	U	10	U	10	U
Benzo(a)anthracene	ug/l	10	U	10	U	10	U	10	U	10	U
Benzo(a)pyrene	ug/l	10	U	10	U	10	U	10	U	10	U
Benzo(b)fluoranthene	ug/l	10	U	10	U	10	U	10	U	10	U
Benzo(ghi)perylene	ug/l	10	U	10	U	10	U	10	U	10	U
Benzo(k)fluoranthene	ug/l	10	U	10	U	10	U	10	U	10	U
Benzoic Acid	ug/l	100	U	10	U	10	U	10	U	10	U
Benzyl Alcohol	ug/l	10	U	10	R	10	U	100	U	100	U
Butyl benzyl phthalate	ug/l	10	U	10	U	10	U	10	U	10	U
Chrysene	ug/l	3	B	10	U	10	U	10	U	10	U
Di-n-butyl phthalate	ug/l	10	U	10	U	10	U	10	U	10	U
Di-n-octyl phthalate	ug/l	10	U	10	U	10	U	10	U	10	U
Dibenzo(a,h)anthracene	ug/l	10	U	10	U	10	U	10	U	10	U
Dibenzofuran	ug/l	10	U	10	U	10	U	10	U	10	U
Diethyl phthalate	ug/l	10	U	10	U	10	U	10	U	10	U
Dimethyl phthalate	ug/l	10	U	10	U	10	U	10	U	10	U
Fluoranthene	ug/l	10	U	10	U	10	U	10	U	10	U
Fluorene	ug/l	10	U	10	U	10	U	10	U	10	U
Hexachlorobenzene	ug/l	10	U	10	U	10	U	10	U	10	U
Hexachlorobutadiene	ug/l	10	U	10	U	10	U	10	U	10	U
Hexachlorocyclopentadiene	ug/l	10	U	10	U	10	U	10	U	10	U
Hexachloroethane	ug/l	10	U	10	U	10	U	10	U	10	U
Indeno(1,2,3-c,d)pyrene	ug/l	10	U	10	U	10	U	10	U	10	U
Isophorone	ug/l	10	U	10	U	10	U	10	U	10	U
N-Nitrosodi-N-Propylamine	ug/l	10	U	10	U	10	U	10	U	10	U
N-Nitrosodiphenylamine	ug/l	10	U	10	U	10	U	10	U	10	U
Naphthalene	ug/l	10	U	10	U	10	U	10	U	10	U

Appendix H Data Summary Table ILANG, 182 Airlift Wing, GPRA, Peoria, Illinois

LOCATOR: MW1 MW1 MW2 MW2 MW3
SAMPLE ID: GPA-SBG-MW1-GW1 GPA-SBG-MW1-GW2 GPA-SBG-MW2-GW1 GPA-SBG-MW2-GW2 GPA-SBG-MW3-GW2
COLLECTION DATE: 01/20/94 04/17/93 01/20/93 04/18/93 04/18/93

	UNITS:	MW1		MW2		MW2		MW2		MW3	
		RESULT	QUAL	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL
Nitrobenzene	ug/l	10	U	10	U	10	U	10	U	10	U
Pentachlorophenol	ug/l		R	20	R	20	U	20	U	20	U
Phenanthrene	ug/l	10	U	10	U	10	U	10	U	10	U
Phenol	ug/l		R	10	R	10	U	10	U	10	U
Pyrene	ug/l		R	10	U	10	U	10	U	10	U
bis(2-Chloroethoxy)methane	ug/l	10	U	10	U	10	U	10	U	10	U
bis(2-Chloroethyl) ether	ug/l	20	U	20	UJ	20	U	20	UJ	20	U
bis(2-Chloroisopropyl) ether	ug/l	10	U	10	U	10	U	10	U	10	UJ
bis(2-Ethylhexyl)phthalate	ug/l	1	U	1	U	10	U	10	U	10	U
Metals											
Aluminum	ug/l	24100		1120	J	42800		2470	J	6070	J
Aluminum, Dissolved	ug/l	212	B	103	(B)	58.10	(B)	1110	(B)	98.90	(B)
Antimony	ug/l	52	U	36	U	52	U	36	U	36	U
Antimony, Dissolved	ug/l	52	U	42	U	52	U	36	U	36	U
Arsenic	ug/l	5.30	(B)	6.80	(B)	7.20	(B)	8.80	(B)	4.10	(B)
Arsenic, Dissolved	ug/l	4.20	(B)	4.70	(B)	3.40	(B)	3	(B)	3	U
Barium	ug/l	245	B	124	(B)	543	B	184	(B)	274	(B)
Barium, Dissolved	ug/l	125	(B)	98.20	(B)	225	B	178	(B)	155	(B)
Beryllium	ug/l	1.40	(B)	1	U	2.70	(B)	1	(B)	1.50	(B)
Beryllium, Dissolved	ug/l	1	U	1	U	1	U	1	U	1	U
Cadmium	ug/l	5	U	5	U	5	U	5	U	5	U
Cadmium, Dissolved	ug/l	5	U	5	U	5	U	5	U	5	U
Calcium	ug/l	290000	B	293000	B	260000	B	220000	B	310000	B
Calcium, Dissolved	ug/l	239000	B	228000	B	155000	B	158000	B	154000	B
Chromium	ug/l	48.70	U	8	U	41.50	U	8	U	11.10	U
Chromium, Dissolved	ug/l	6	U	8	U	6	U	30.90	U	8	U
Cobalt	ug/l	13.60	U	8	U	12.40	U	8	U	10.10	U
Cobalt, Dissolved	ug/l	9	U	8	U	9	U	8	U	8	U
Copper	ug/l	32.10	B	7.60	(B)	36.50	B	8.10	(B)	16.80	(B)
Copper, Dissolved	ug/l	4	U	4	U	4	U	4	U	4	U
Iron	ug/l	30800		1090	J	14300	K	1300	J	4130	J
Iron, Dissolved	ug/l	165	U	41	U	13	U	848	U	41	U
Lead	ug/l	11	L	2.70	(B)	16.80	L	3.20	B	12.30	B
Lead, Dissolved	ug/l	2	UL	2	UL	2	UL	2	UL	2	UL
Magnesium	ug/l	173000	B	174000	B	121000	B	99400	B	149000	B

Appendix H Data Summary Table
ILANG, 182 Airlift Wing, GPRA, Peoria, Illinois

LOCATOR:		MW1		MW2		MW2		MW3	
SAMPLE ID:		GPA-SBG-MW1-GW1		GPA-SBG-MW1-GW2		GPA-SBG-MW2-GW1		GPA-SBG-MW2-GW2	
COLLECTION DATE:		01/20/94		04/17/93		01/20/93		04/18/93	
UNITS:		RESULT	QUAL	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL
Magnesium, Dissolved	ug/l	139000		137000	B	57800	B	65200	B
Manganese	ug/l	2290	L	2370		806	L	400	
Manganese, Dissolved	ug/l	2150		2010		280		131	
Mercury	ug/l	0.20	U	0.20	U	0.20	U	0.20	U
Mercury, Dissolved	ug/l	0.20	U	0.20	U	0.20	U	0.20	U
Nickel	ug/l	39.70	U	25.40	U	23.50	U	17	U
Nickel, Dissolved	ug/l	24.70	U	17	U	13	U	17	U
Potassium	ug/l	4490	U	1350	U	11600	B	1610	U
Potassium, Dissolved	ug/l	1440	U	1350	U	4510	U	1570	U
Selenium	ug/l	3	UL	3	UL	15	UL	3	U
Selenium, Dissolved	ug/l	4	UL	3	UL	4	UL	3	U
Silver	ug/l	5	U	7	U	5	U	7	U
Silver, Dissolved	ug/l	5	U	7	U	5	U	7	U
Sodium	ug/l	54400	B	77200	B	23000	B	30800	B
Sodium, Dissolved	ug/l	76100	B	78700	B	22600	B	33500	B
Thallium	ug/l	3	UL	20	U	3	UL	4	U
Thallium, Dissolved	ug/l	30	UL	4	UL	30	UL	4	UL
Vanadium	ug/l	67	U	6	U	6.30	U	6	U
Vanadium, Dissolved	ug/l	4	U	6	U	4	U	6	U
Zinc	ug/l	89.60	B	159	B	123	B	44.90	B
Zinc, Dissolved	ug/l	15.30	U	42.20	B	5	U	32.90	B
TPH									
Total Petroleum Hydrocarbons	mg/l	0.25	U	0.70		0.80	B	0.70	
								6.60	U
								72	B
								6.60	U
								0.30	B

Appendix I: Groundwater Development, Soil, and Groundwater Sampling Forms

Soil / Sediment Sampling Record

Project Name <u>Greater Peoria Airport</u>	Project Number <u>911655</u>
Location <u>Greater Peoria Airport IL 170 - North</u>	Sample Number <u>GPA-BG-1-SS01</u>
Recorded By <u>PAL</u>	Duplicate Number <u>NA</u>
Date <u>April 18, 1993</u>	Checked by _____
Site <u>Back ground Extreme North Side of Base</u>	Date _____

Sampling Equipment _____

Sample Type: ☒ Soil ☐ Sediment ☐ Rock

Sample Type Description

USCS Soil Type Silty Clay

Color DRK Brown

Odor None

Depth 0-1'

Number of Samples 1

Comments MOIST w/ Abundant organics / Native Soil not f. 11

Wu = 0 ppm

Sampling Point (sketch):

9 - Guard shack
16 - Administration Bldg
19 - CE Bldg

main road.

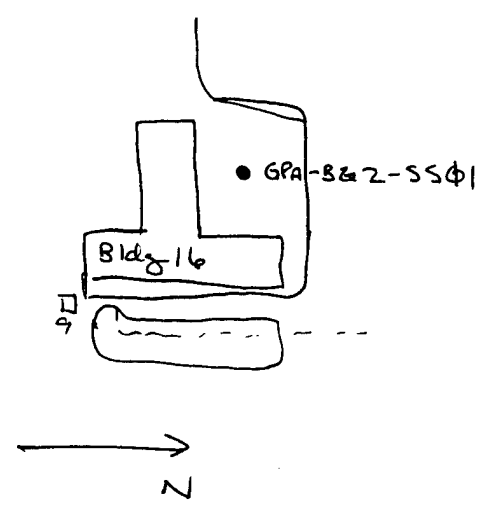
N

Soil / Sediment Sampling Record

Project Name <u>Greater Peoria Airport I82nd TFG</u> Location <u>Background NW. of Bldg 16</u> Recorded By <u>PAL</u> Date <u>4-18-93</u> Site <u>Back ground</u>	Project Number <u>911655</u> Sample Number <u>GPA-B&Z SS#1</u> Duplicate Number <u>n/a</u> Checked by _____ Date _____
-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	----------------------------------------------------------------------------------------------------------------------------------------

Sampling Equipment _____	
Sample Type:	<input checked="" type="checkbox"/> Soil <input type="checkbox"/> Sediment <input type="checkbox"/> Rock
Sample Type Description	
USCS Soil Type <u>Silty Clay</u>	
Color <u>Dak Brwn to Brwn</u>	
Odor <u>none</u>	
Depth <u>0-1'</u>	
Number of Samples <u>1</u>	
Comments <u>MOIST w/ organics</u>	
<u>ANU < 1 ppm</u>	

Sampling Point (sketch):



Soil / Sediment Sampling Record

Project Name Greater Peoria Airport 182nd

Project Number 911655

Location N.W. of Bldg 19 C.E.

Sample Number GPA-BG3-SS01

Recorded By Phlag

Duplicate Number N/A

Date April 18, 1993

Checked by _____

Site _____

Date _____

Sampling Equipment _____

Sample Type:



Soil



Sediment



Rock

Sample Type Description

USCS Soil Type Clay w/ m silt

Color Brown

Odor none

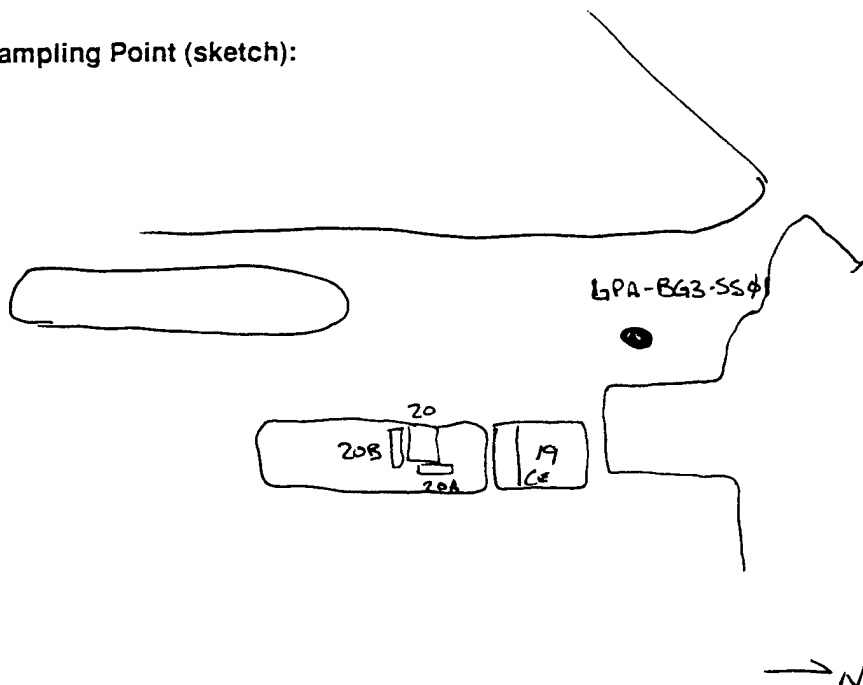
Depth 0-1'

Number of Samples 1

Comments organics, possible fill

HNU = 0 ppm

Sampling Point (sketch):



Well Development/Purge Log

Equipment Information

Bailer No. _____

Pump No. _____

Interface Probe No. _____

Sounder No. _____

pH Meter No. serial# 9209

Conductivity Meter No. #9209

Thermometer No. _____

Well Information	
Number	BG-mw1
Location	Back Street
Datum	TAC
Elev. Datum Point	647.36
Ground Elev.	647.9
Well Diameter	2"
Well Depth	16'
Well Material	Stainless

Project Name Rebecca Air Project No. 911655

PID/FID Readings — (Ambient) — (Well Mouth)

Static Levels 6.1' Bioc 3.17' 43 (Product) 6.1' Bioc (Water)

Pump ☐ /Ball ☒ Rate 0.425 gpm Total Gal. Extracted 17

Water Column Length 9.5 Well Volumes Extracted —

Disposition of Discharge Water Drums - Contaminated

Specific Capacity — (gpm/ft. drawdown) After — Hrs. —

[illegible]

Recorded By PKL Date 1-19-93
Checked By AK Date _____

Notes: 1 ft length of 4" = 0.087 ft³ or 0.65 gal
1 ft length of 2" = 0.022 ft³ or 0.16 gal

Well Development/Purge Log

Project Name Recreo Area Project No. 911655
 PID/FID Readings — (Ambient) — (Well Mouth)
~~Static Levels~~ 2.54' BTOC (Water)
 Pump ☐ / Ball ☒ Rate 0.26 gal/min Total Gal. Extracted 19
 Water Column Length 12.46 Well Volumes Extracted —
 Disposition of Discharge Water Contained into poly tanks
 Specific Capacity — (gpm/ft. drawdown) After — Hrs. —

Well Information

Number	GPA-535a-mw2
Location	Back Ground of F&S
Datum	I.S.C.
Elev. Datum Point	647.36
Ground Elev.	647.9
Well Diameter	2"
Well Depth	15' Bags
Well Material	Steelless

Equipment Information

Bailer No. _____

Pump No. _____

Interface Probe No. _____

Sounder No. _____

pH Meter No. serial# 9209

Conductivity Meter No. 9209

Thermometer No. _____

[illegible]

Notes: 1 ft length of 4" = 0.087 l³ or 0.65 gal

Recorded By

Date _____

Checked By _____

Date: _____

WELL DEVELOPMENT LOG		Well No.: S1-mw1	Page ____ of ____
Installation: <u>Pezuma Awa</u>		Site: <u>Site 1</u>	
Project No.:	Client/Project:		
HAZWRAP Contractor:	Dev. Contractor:		
Dev. Start (: ____m)	Dev. End: (: ____m)	Csa Dia.: 2"	Dev. Rig (Y/(N))
Developed by:			

Dev. Method teflon Bailer

Equipment

Pre-Dev. SWL 3.29 Maximum drawdown during pumping _____ ft at _____ gpm

Range and Average Discharge rate _____ gpm

Total quantity of material bailed _____

Total quantity of water discharged by pumping _____

Disposition of discharge water _____

Time	Volume Removed (gals)	Water Level- ft. BTOC	Turbidity	Clarity/ Color	Temp °C	pH	Conductivity	Remarks
1025	-	3.29	2200	cloudy	43.4	7.25	.76	Initial Parameters
1042	5	-	2200	v. cloudy	46.9	7.15	.73	
1115	10	-	2200	v. cloudy	47.1	7.1	.72	
1133	13.5	-	2200	v. cloudy	48.0	7.01	.79	
1142	17	-	2200	S. cloudy	47.6	7.02	.81	
								Dev. done at 13.5 gal.
								Dev. done at 17 gal.

Equipment

Pre-Dev. SWL _____ Maximum drawdown during pumping _____ ft at _____ gpm

Range and Average Discharge rate _____

Total quantity of material bailed _____

Total quantity of water discharged by pumping _____

Disposition of discharge water _____

Time	Volume Removed (gals)	Water Level- ft. BTOC	Turbidity	Clarity/ Color	Temp ° C	pH	Conductivity	Remarks
0853	5	-	>200	V. Turbid	48.8	7.1	.7	Beginning development Bungee dry at Seal.
0935	10	-	>200	V. Turbid	49	7.1	.73	
1029	15	-	>200	S. Turbid	46.9	7.35	.74	
1035	20	-	>200	Turbid	49.3	7.3	.73	
					=			

WELL DEVELOPMENT LOG		Well No.: 28 mwl	Page ____ of ____
Installation: <u>Deoric AN6</u>		Site: <u>site 3A</u>	
Project No.:	Client/Project:		
HAZWRAP Contractor: <u>TETC</u>	Dev. Contractor: <u>Burlington</u>		
Dev. Start (15: <u>36m</u>)	Dev. End: (: <u> </u> m)	Csg Dia.: <u>2"</u>	Dev. Rig (Y/N)
Developed by: <u>B. Porter</u>			

Dev. Method hand stainless steel Bailor

Equipment

Pre-Dev. SWL 4.75 Maximum drawdown during pumping ft at gpm

Range and Average Discharge rate gpm

Total quantity of material bailed

Total quantity of water discharged by pumping

Disposition of discharge water 55 gallon Drum

Time	Volume Removed (gals)	Water Level- ft. BTOC	Turbidity <u>NTU</u>	Clarity/ Color	Temp °F	pH	Conductivity <u>x1000</u>	Remarks
15:39	3	-	>200	turbid	47	6.97	.66	development water containing some coarse sand. purged dry at legal.
16:30	6	-	>200	v. turbid	44	7.4	.68	
17:09	10	-	>200	v. turbid	40	7.5	.61	
		4.74	>200	cloudy	50.6	6.7	.75	initial reading purged dry at 15 gal.
0845	10	-	>200	shallow cloudy	52.3	7.05	.72	
0914	15	-	>200	cloudy	46.3	7.1	.64	
1006	17	-	197	slightly cloudy				

WELL DEVELOPMENT LOG		Well No.: _____	Page _____ of _____
Installation: _____		Site: _____	
Project No.: _____	Client/Project: _____		
HAZWRAP Contractor: _____	Dev. Contractor: _____		
Dev. Start (: : m)	Dev. End (: : m)	Csd Dia.: _____	
Developed by: _____		Dev. Rig (Y/N)	

Dev. Method Hand pump (steel Bailor being pumped into 5 gallon bucket

Equipment _____

Pre-Dev. SWL 5.21 Maximum drawdown during pumping _____ ft at _____ gpm

Range and Average Discharge rate _____ gpm

Total quantity of material bailed _____

Total quantity of water discharged by pumping _____

Disposition of discharge water 55 gallon Drum

Time	Volume Removed (gals)	Water Level ft. BTOC	Turbidity NTU	Clarity/Color	Temp °F	pH	Conductivity	Remarks
15:02	3	9.5'	7200	stagnant	52	6.9	.61	purged dry at 3 gal.
15:09	6	-	162	slightly Turbid	45.2	7.12	.54	purged dry at 6 gal. with recharge
15:26	9	-	40.8	clear	46.6	7.14	.55	purged dry at 9 gal.
16:00	10	-	60.0	clear	44.8	7.20	.55	Purged dry at 10 gal.
16:24	12	-	142.6	clear	42.8	7.6	.50	purged dry at 12 gal.
16:54	13	-	27	cloudy	39.8	7.7	.49	purged dry at 13 gal.
17:22	15	-	26.8	clear	48.3	7.57	.51	purged dry at 15 gal.

GROUNDWATER SAMPLING

Sample ID: GPA-S1-GW2

PROJECT NAME 182nd TASC Illinois ANG JOB NO: 011655 DATE: 4-17-93
 WELL NO. S1-MW1 LOCATION G. Peoria Airport, Peoria, ILLINOIS
 WEATHER CONDITIONS Sunny AMBIENT TEMP: 58-60°F
 PERSONNEL P. Long & J. Bruehl
 REVIEWED BY: PHC

EQUIPMENT USED: Bailer, rope, Groundwater filter, Hand pump

PURGING DEVICE

Type Device? Teflon Bailer
 How was the device decontaminated? See logbook
 How was the line decontaminated? dedicated
 Which well was previously purged? —

SAMPLING DEVICE

Type Device? Teflon Bailer
 How was the device decontaminated? See logbook
 How was the line decontaminated? dedicated
 Which well was previously sampled? —

INITIAL WELL VOLUME

Well diameter (in.) 2"
 Stickup (ft.) 0.5'
 Depth to bottom of well (ft.) 13'
 Depth to water surface (ft.) 2.13'
 Length of water (ft.) 13' - 2.13' = 10.87'
 Volume of water (ft³) 0.238
 (gal.) 1.73
 Amount of sediment at bottom of well (ft.) —
 LNAPL (ft.) — DNAPL (ft.) —

PURGING

Time started 1220 Finished 1233
 Volume purged 7.5 gallons
 Comments on Well Recovery moderate
 Additional Comments —
 Samples Collected: Start 1415
 Finish 1418

IN-SITU TESTING

	Date: <u>4-17-93</u>	<u>4-17-93</u>	<u>4-17-93</u>	<u>4-17-93</u>			
Time:	<u>1223</u>	<u>1230</u>	<u>1233</u>	<u>1415</u>			
Water Level	<u>2.13'</u>	<u>—</u>	<u>—</u>	<u>2.48'</u>			
Well Volume Purged (gal.)	<u>0</u>	<u>5 gal</u>	<u>7.5 gal</u>	<u>Sample</u>			
Turbidity	<u>clear to slight</u>	<u>Sample</u>	<u>Sample</u>	<u>Slight</u>			
Odor	<u>None</u>	<u>None</u>	<u>None</u>	<u>None</u>			
Organic Vapor (ppm)	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>			
pH (units)	<u>10.78</u>	<u>9.38</u>	<u>9.75</u>	<u>NA</u>			
Conductivity (µ mhos)	<u>948</u>	<u>895</u>	<u>910</u>	<u>1045</u>			
Water Temperature (°C)	<u>55.3</u>	<u>50.8</u>	<u>51.4</u>	<u>52.4</u>			

Notes:

1 ft. length of 4"

= 0.037 ft³ or 0.63 gal

1 ft. length 2" = 0.022 ft³ or 0.16 gal

Turbidity choices:

clear, turbid, opaque

Revision Date: 2-8-91

TETC154

GROUNDWATER SAMPLING

Sample ID: GPA-3A-MW1-6-2GU2

PROJECT NAME 182nd TASG Illinois ANG JOB NO: 911055 DATE: 4/18/93
 WELL NO. 3A-MW1 LOCATION G. Peoria Airport, Peoria, Illinois
 WEATHER CONDITIONS Sunny / Windy AMBIENT TEMP: ±50°F
 PERSONNEL K M and PL
 REVIEWED BY: _____

EQUIPMENT USED:

PURGING DEVICE

Type Device? Bailer
 How was the device decontaminated? See logbook
 How was the line decontaminated? dedicated
 Which well was previously purged? _____

SAMPLING DEVICE

Type Device? Bailer
 How was the device decontaminated? Dedicated
 How was the line decontaminated? "
 Which well was previously sampled? _____

INITIAL WELL VOLUME

Well diameter (in.) 2"
 Stickup (ft.) 0.4' stickdown
 Depth to bottom of well (ft.) 13
 Depth to water surface (ft.) 3.66'
 Length of water (ft.) 9.34
 Volume of water (ft³) 0.205
 (gal.) 15
 Amount of sediment at bottom of well (ft.) —
 LNAPL (ft.) _____ DNAPL (ft.) _____

PURGING 4-17-93

Time started 081725 Finished 1740 0835
PAC 4-17-93 PAC 4-17-93
 Volume purged largest
 Comments on Well Recovery Slow
 Additional Comments _____
 Samples Collected: Start 0818
4-18-93 Finish 0835

IN-SITU TESTING	Date: <u>4-17-93</u>	<u>4-17-93</u>	<u>4-17-93</u>	<u>4-18-93</u>	_____	_____	_____
Time:	<u>1725</u>	<u>1730</u>	<u>1740</u>	<u>0818</u>	_____	_____	_____
Water Level	<u>3.66</u>	<u>—</u>	<u>—</u>	<u>3.85</u>	_____	_____	_____
Well Volume Purged (gal.)	<u>0</u>	<u>4</u>	<u>6</u>	<u>—</u>	_____	_____	_____
Turbidity	<u>mod.</u>	<u>mod.</u>	<u>mod to slight</u>	<u>slight</u>	<u>slight</u>	_____	_____
Odor	<u>none</u>	<u>none</u>	<u>none</u>	<u>none</u>	<u>none</u>	_____	_____
Organic Vapor (ppm)	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>PAC</u>	_____	_____
pH (units)	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>4-18-93</u>	_____	_____
Conductivity (µ mhos)	<u>534</u>	<u>558</u>	<u>567</u>	<u>515</u>	<u>507</u>	_____	_____
Water Temperature (°C)	<u>54.9</u>	<u>51.4</u>	<u>52.1</u>	<u>51.4</u>	<u>50.6</u>	_____	_____

Notes: 1 ft. length of 4" = 0.087 ft³ or 0.65 gal. 1 ft. length 2" = 0.022 ft³ or 0.16 gal.
 Turbidity choices: clear, turbid, opaque. Revision Date: 2-8-91

GROUNDWATER SAMPLING

Sample ID: GPA-33-6w2

PROJECT NAME 182nd TASS, Illinois ANG JOB NO: 911655 DATE: 4-17-93
 WELL NO. 33-MW1 LOCATION G Peoria Airport, Peoria, Illinois
 WEATHER CONDITIONS Part. Cloudy/Sunny AMBIENT TEMP: ~50
 PERSONNEL PA Laig & K. Mcbrayer
 REVIEWED BY: PA Laig

EQUIPMENT USED: Barler, Rope, Groundwater Filter, hand pump

PURGING DEVICE

Type Device? teflon Barler
 How was the device decontaminated? See logbook
 How was the line decontaminated? dedicated
 Which well was previously purged? -

SAMPLING DEVICE

Type Device? teflon Barler
 How was the device decontaminated? See logbook
 How was the line decontaminated? dedicated
 Which well was previously sampled? -

INITIAL WELL VOLUME

Well diameter (in.) 2"
 Stickup (ft.) 0.5' stickdown
 Depth to bottom of well (ft.) 13'
 Depth to water surface (ft.) 3.96'
 Length of water (ft.) 9.04'
 Volume of water (ft³) 0.198
 (gal.) 1.45
 Amount of sediment at bottom of well (ft.) -
 LNAPL (ft.) - DNAPL (ft.) -

PURGING

Time started 1616 Finished 1645
 Volume purged -
 Comments on Well Recovery med to slow
 Additional Comments Sand coming into well during purge
 Samples Collected: Start 2841
 4/18/93 Finish 0903

IN-SITU TESTING	Date: 4-17-93	4-17-93	4-17-93	4-18-93			
Time:	1616	1623	1645	2841			
Water Level	3.96'	-	-	6.15'			
Well Volume Purged (gal.)	0	4	80	-			
Turbidity	very / slight to med			Slight			
Odor	none	none	none	none			
Organic Vapor (ppm)	-	-	-	-			
pH (units)	-	-	-	-			
Conductivity (µ mhos)	864	681	782	724			
Water Temperature (°C)	57.6	54.5	54.3	50.6			

Notes: 1 ft. length of 4" = 0.087 ft³ or 0.65 gal. 1 ft. length 2" = 0.022 ft³ or 0.16 gal.
 Turbidity choices: clear, turbid, opaque Revision Date: 2-8-91

TETC154

GROUNDWATER SAMPLING

Sample ID: 6PA-3C-GW2

PROJECT NAME <u>182nd TASC, Illinois ANG</u> JOB NO: <u>911655</u> DATE: <u>4/17/93</u>																																																																																	
WELL NO. <u>3C-MW1</u>	LOCATION <u>Greater Peoria Airport, Peoria, Illinois</u>																																																																																
WEATHER CONDITIONS <u>Sunny Part. Cloudy</u> AMBIENT TEMP: <u>~50</u>																																																																																	
PERSONNEL <u>JSB, PHL, KM</u>																																																																																	
REVIEWED BY: <u>PHL</u>																																																																																	
EQUIPMENT USED: <u>Barler, rope, filter, hand pump</u>																																																																																	
PURGING DEVICE Type Device? <u>teflon Barler</u> How was the device decontaminated? <u>see logbook</u> How was the line decontaminated? <u>dedicated</u> Which well was previously purged? <u>-</u>	SAMPLING DEVICE Type Device? <u>teflon Barler</u> How was the device decontaminated? <u>see logbook</u> How was the line decontaminated? <u>dedicated</u> Which well was previously sampled? <u>-</u>																																																																																
INITIAL WELL VOLUME Well diameter (in.) <u>2"</u> Stickup (ft.) <u>0.5' stickdown</u> Depth to bottom of well (ft.) <u>13'</u> Depth to water surface (ft.) <u>3.58'</u> Length of water (ft.) <u>9.42'</u> Volume of water (ft ³) <u>PHL 4-17-93 0.201</u> (gal.) <u>1.5</u> Amount of sediment at bottom of well (ft.) <u>-</u> LNAPL (ft.) _____ DNAPL (ft.) _____	PURGING Time started <u>1645</u> Finished <u>1657</u> Volume purged <u>6 gals</u> Comments on Well Recovery <u>moderate.</u> Additional Comments _____ Samples Collected: Start <u>1010</u> 4-18-93 Finish <u>1040</u>																																																																																
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>IN-SITU TESTING</th> <th>Date: <u>4-17-93</u></th> <th><u>4-17-93</u></th> <th><u>4-17-93</u></th> <th><u>4-18-93</u></th> <th>_____</th> <th>_____</th> <th>_____</th> </tr> </thead> <tbody> <tr> <td>Time:</td> <td><u>1646</u></td> <td><u>1653</u></td> <td><u>1657</u></td> <td><u>1010</u></td> <td>_____</td> <td>_____</td> <td>_____</td> </tr> <tr> <td>Water Level</td> <td><u>3.58</u></td> <td><u>-</u></td> <td><u>-</u></td> <td><u>3.71</u></td> <td>_____</td> <td>_____</td> <td>_____</td> </tr> <tr> <td>Well Volume Purged (gal.)</td> <td><u>0</u></td> <td><u>5</u></td> <td><u>6</u></td> <td><u>-</u></td> <td>_____</td> <td>_____</td> <td>_____</td> </tr> <tr> <td>Turbidity</td> <td><u>Slight</u></td> <td><u>Slight</u></td> <td><u>Slight</u></td> <td><u>mod</u></td> <td>_____</td> <td>_____</td> <td>_____</td> </tr> <tr> <td>Odor</td> <td><u>none</u></td> <td><u>none</u></td> <td><u>none</u></td> <td><u>none</u></td> <td>_____</td> <td>_____</td> <td>_____</td> </tr> <tr> <td>Organic Vapor (ppm)</td> <td><u>-</u></td> <td><u>-</u></td> <td><u>-</u></td> <td><u>-</u></td> <td>_____</td> <td>_____</td> <td>_____</td> </tr> <tr> <td>pH (units)</td> <td><u>-</u></td> <td><u>-</u></td> <td><u>-</u></td> <td><u>-</u></td> <td>_____</td> <td>_____</td> <td>_____</td> </tr> <tr> <td>Conductivity (μ mhos)</td> <td><u>976</u></td> <td><u>935</u></td> <td><u>902</u></td> <td><u>887</u></td> <td>_____</td> <td>_____</td> <td>_____</td> </tr> <tr> <td>Water Temperature (°C)</td> <td><u>54.1</u></td> <td><u>54.5</u></td> <td><u>54.7</u></td> <td><u>50.8</u></td> <td>_____</td> <td>_____</td> <td>_____</td> </tr> </tbody> </table>		IN-SITU TESTING	Date: <u>4-17-93</u>	<u>4-17-93</u>	<u>4-17-93</u>	<u>4-18-93</u>	_____	_____	_____	Time:	<u>1646</u>	<u>1653</u>	<u>1657</u>	<u>1010</u>	_____	_____	_____	Water Level	<u>3.58</u>	<u>-</u>	<u>-</u>	<u>3.71</u>	_____	_____	_____	Well Volume Purged (gal.)	<u>0</u>	<u>5</u>	<u>6</u>	<u>-</u>	_____	_____	_____	Turbidity	<u>Slight</u>	<u>Slight</u>	<u>Slight</u>	<u>mod</u>	_____	_____	_____	Odor	<u>none</u>	<u>none</u>	<u>none</u>	<u>none</u>	_____	_____	_____	Organic Vapor (ppm)	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	_____	_____	_____	pH (units)	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	_____	_____	_____	Conductivity (μ mhos)	<u>976</u>	<u>935</u>	<u>902</u>	<u>887</u>	_____	_____	_____	Water Temperature (°C)	<u>54.1</u>	<u>54.5</u>	<u>54.7</u>	<u>50.8</u>	_____	_____	_____
IN-SITU TESTING	Date: <u>4-17-93</u>	<u>4-17-93</u>	<u>4-17-93</u>	<u>4-18-93</u>	_____	_____	_____																																																																										
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Water Level	<u>3.58</u>	<u>-</u>	<u>-</u>	<u>3.71</u>	_____	_____	_____																																																																										
Well Volume Purged (gal.)	<u>0</u>	<u>5</u>	<u>6</u>	<u>-</u>	_____	_____	_____																																																																										
Turbidity	<u>Slight</u>	<u>Slight</u>	<u>Slight</u>	<u>mod</u>	_____	_____	_____																																																																										
Odor	<u>none</u>	<u>none</u>	<u>none</u>	<u>none</u>	_____	_____	_____																																																																										
Organic Vapor (ppm)	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	_____	_____	_____																																																																										
pH (units)	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	_____	_____	_____																																																																										
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Water Temperature (°C)	<u>54.1</u>	<u>54.5</u>	<u>54.7</u>	<u>50.8</u>	_____	_____	_____																																																																										
Notes: 1 ft. length of 4" = 0.087 ft ³ or 0.65 gal 1 ft. length 2" = 0.022 ft ³ or 0.18 gal Turbidity choices: clear, turbid, opaque Revision Date: 2-8-91																																																																																	

TETC154

GROUNDWATER SAMPLING

Sample ID: GPA-BG1-GW2

PROJECT NAME <u>182nd TASC: Illinois ASG</u>		JOB NO: <u>911655</u>		DATE: <u>4/17/93</u>	
WELL NO. <u>BG-MW1</u>		LOCATION <u>C. Peoria Airport, Peoria, (Illinois)</u>			
WEATHER CONDITIONS <u>clear to part. cloudy</u>		AMBIENT TEMP: <u>58°F</u>			
PERSONNEL <u>J. Ziegler, & P. Long</u>					
REVIEWED BY: <u>P. Long</u> <u>April 27, 1993</u>					
EQUIPMENT USED: _____					
PURGING DEVICE			SAMPLING DEVICE		
Type Device? <u>teflon Bailer</u>			Type Device? <u>teflon Bailer</u>		
How was the device decontaminated? <u>See logbook</u>			How was the device decontaminated? <u>See logbook</u>		
How was the line decontaminated? <u>dedicated</u>			How was the line decontaminated? <u>dedicated</u>		
Which well was previously purged? _____			Which well was previously sampled? _____		
INITIAL WELL VOLUME			PURGING		
Well diameter (in.) <u>2"</u>			Time started <u>1143</u> Finished <u>1200</u>		
Stickup (ft.) <u>0.4' stickdown</u>			Volume purged <u>7 gallons</u>		
Depth to bottom of well (ft.) <u>16'</u>			Comments on Well Recovery <u>med to glow</u>		
Depth to water surface (ft.) <u>5.28'</u>			<u>Recovery</u>		
Length of water (ft.) <u>16' - 5.28' = 10.72'</u>			Additional Comments _____		
Volume of water (ft ³) <u>0.235</u>			_____		
(gal.) <u>1.72</u>			_____		
Amount of sediment at bottom of well (ft.) <u>-</u>			Samples Collected: Start <u>1348</u>		
LNAPL (ft.) _____ ONAPL (ft.) _____			4-17-93 Finish <u>1355</u>		
IN-SITU TESTING					
Date:	<u>4-17-93</u>	<u>4-17-93</u>	<u>4-17-93</u>	<u>4-17-93</u>	_____
Time:	<u>1145</u>	<u>1153</u>	<u>1200</u>	<u>1348</u>	_____
Water Level	<u>5.28'</u>	_____	_____	<u>4.08'</u>	_____
Well Volume Purged (gal.)	<u>0</u>	<u>5 gal</u>	<u>7 gal</u>	<u>Sample</u>	_____
Turbidity	<u>Very</u>	<u>mod.</u>	<u>mod.</u>	<u>slight</u>	_____
Odor	<u>none</u>	<u>none</u>	<u>none</u>	<u>none</u>	_____
Organic Vapor (ppm)	_____	_____	_____	_____	_____
pH (units)	<u>7.98</u>	<u>7.09</u>	<u>7.60</u>	<u>NA</u>	_____
Conductivity (µ mhos)	<u>1940</u>	<u>2220</u>	<u>2180</u>	<u>1879</u>	_____
Water Temperature (°C)	<u>59.4</u>	<u>53.6</u>	<u>53.16</u>	<u>54.9</u>	_____
Notes: 1 ft. length of 4" = 0.057 ft ³ or 0.65 gal 1 ft. length 2" = 0.022 ft ³ or 0.16 gal					
Turbidity choices: clear, turbid, opaque Revision Date: 2-8-91					

TETC154

GROUNDWATER SAMPLING

Sample ID: GPA-BG2-GW2

PROJECT NAME <u>18th TASC Illinois ANG</u>		JOB NO: <u>911655</u>		DATE: <u>4-17-93</u>	
WELL NO. <u>BG-MW2</u>		LOCATION <u>G. Peoria Airport, Peoria, Illinois</u>			
WEATHER CONDITIONS <u>Partly cloudy</u>		AMBIENT TEMP: <u>~48°</u>			
PERSONNEL <u>JSB, PHL, KTM</u>					
REVIEWED BY: <u>PHLg</u> <u>4-27-93</u>					
EQUIPMENT USED: <u>Bailer, rope, filter, Hand Pump</u>					
PURGING DEVICE			SAMPLING DEVICE		
Type Device? <u>teflon Bailer</u>			Type Device? <u>teflon Bailer</u>		
How was the device decontaminated? <u>see logbook</u>			How was the device decontaminated? <u>see logbook</u>		
How was the line decontaminated? <u>dedicated</u>			How was the line decontaminated? <u>dedicated</u>		
Which well was previously purged? <u>-</u>			Which well was previously sampled? <u>-</u>		
INITIAL WELL VOLUME			PURGING		
Well diameter (in.) <u>2"</u>			Time started <u>1758</u> Finished <u>1816</u>		
Stickup (ft.) <u>0.5'</u>			Volume purged <u>8</u>		
Depth to bottom of well (ft.) <u>15.2'</u>			Comments on Well Recovery <u>med. to Slow</u>		
Depth to water surface (ft.) <u>2.25</u>			Additional Comments <u>-</u>		
Length of water (ft.) <u>12.95'</u>					
Volume of water (ft ³) <u>0.285</u>					
(gal.) <u>2.07</u>					
Amount of sediment at bottom of well (ft.) <u>-</u>			Samples Collected: Start <u>1110</u>		
LNAPL (ft.) <u>-</u> DNAPL (ft.) <u>-</u>			Finish <u>1205</u>		
IN-SITU TESTING		Date: <u>4-17-93</u>	<u>4-17-93</u>	<u>4-17-93</u>	<u>4-17-93</u>
Time: <u>1758</u>		<u>1803</u>	<u>1810</u>	<u>1042</u>	
Water Level <u>2.25</u>		<u>-</u>	<u>-</u>	<u>2.32</u>	
Well Volume Purged (gal.) <u>6</u>		<u>4 gals</u>	<u>8</u>	<u>-</u>	
Turbidity <u>Very</u>		<u>Very</u>	<u>Med to Slight med</u>		
Odor <u>-</u>		<u>-</u>	<u>-</u>		
Organic Vapor (ppm) <u>-</u>		<u>-</u>	<u>-</u>		
pH (units) <u>-</u>		<u>-</u>	<u>-</u>		
Conductivity (μ mhos) <u>975</u>		<u>1045</u>	<u>1103</u>	<u>1200</u>	
Water Temperature (°C) <u>54.5</u>		<u>54.3</u>	<u>52.2</u>	<u>50.6</u>	
<p>Notes: 1 ft. length of 4" = 0.087 ft³ or 0.65 gal. 1 ft. length 2" = 0.022 ft³ or 0.16 gal.</p> <p>Turbidity choices: clear, turbid, opaque Revision Date: 2-8-91</p>					

TETC154

Appendix J: Survey Data



CLARK ENGINEERS MW, INC.

February 11, 1993

Mr. Bill Norton
Earth Technology Corporation
673 Emory Valley Road
Oak Ridge, TN 27830

Re: Peoria Air National Guard
Survey Data
Subcontract 935-0024-DC4

Dear Mr. Norton:

Enclosed find our final submittal of survey data on the referenced project. We have revised the Location Plan to show piezometers in grass area and to adjust northerly the location of soil borings at Site 2. This final submittal provides all items required by the contract including:

- A. Location Plan
- B. Listing of Coordinates and Elevations
for all borings, piezometers & monitoring wells (2 pages)
- C. Copy of Field Notes
- D. Copy of PLS License

We have used existing on site vertical and horizontal control to establish the state plane coordinates and USGS elevations on the various monitoring locations. As noted on the attached coordinate/elevation table, the supplied data is within tolerances allowed by the contract however, these new monitoring points and their associated coordinates and elevation should not be used as control for future survey work.

We hereby certify that the attached data was collected and assembled under my direction and that the data accuracy is consistent with that of a third order survey.

Very truly yours,

CLARK ENGINEERS MW, INC.

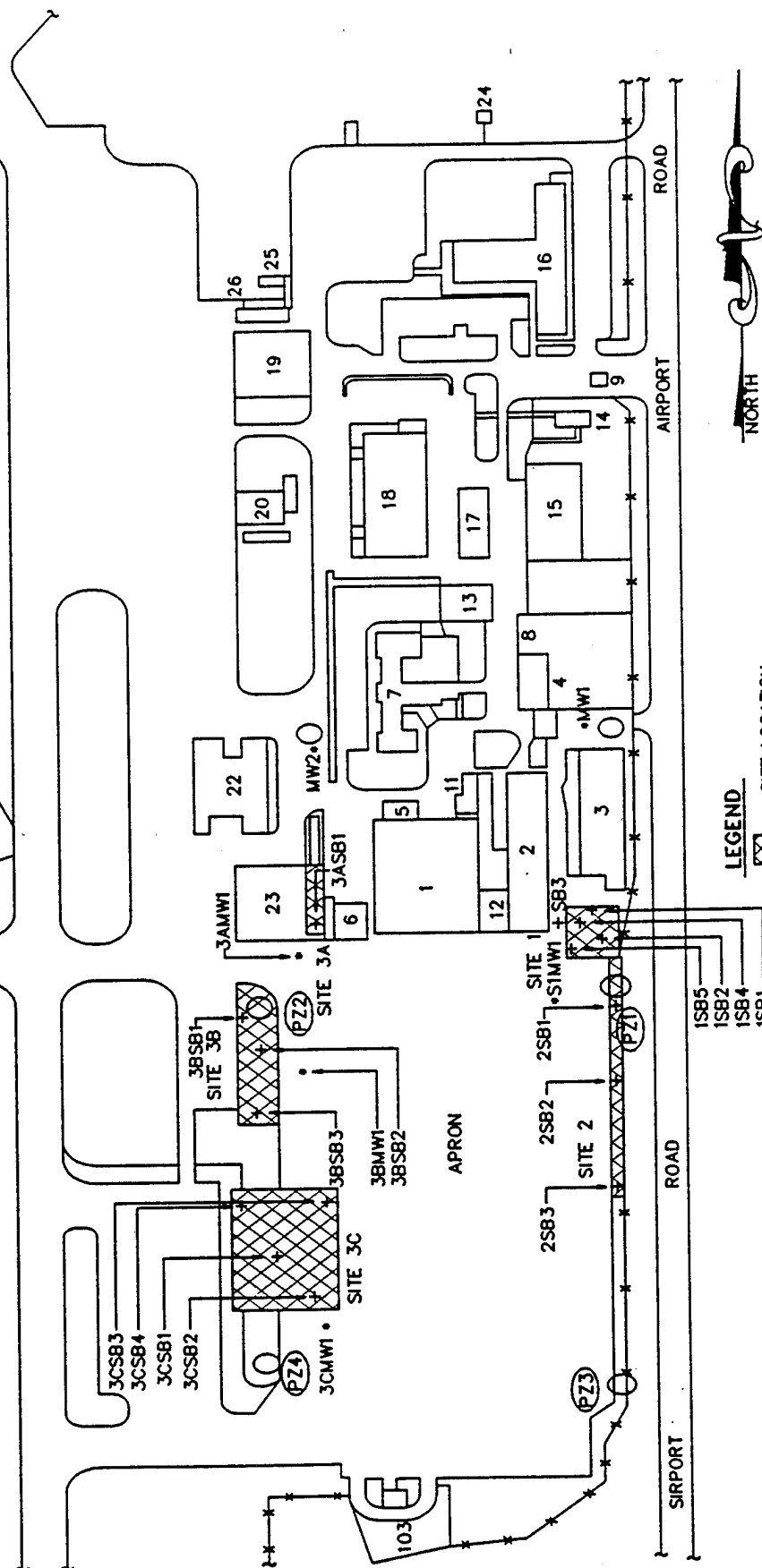

Steven F. Romanowski, P.L.S.

SFR:lc
enc.

Consulting Engineers







for

EARTH TECHNOLOGY CORPORATION
SUBCONTRACT #93S-0024-DC4



NOTE:
SEE ATTACHED COORDINATE SHEET FOR
EXACT LOCATION OF EACH MONITORING
POINT.

LEGEND

-  SITE LOCATION
 FACILITY PIEZOMETER
 BUILDING WITH BUILDING NUMBER
 FENCE/AIRPORT BOUNDARY
 MONITORING WELLS
 SOIL BORINGS

SCALE = 1" = 250' +



CLARK ENGINEERS MW, INC.
3425 North Dries Lane
Peoria, Illinois 61604
Ph (309) 685-8464

PH(309)685-8464

Peoria Air National Guard - Peoria, IL
 Hazardous Waste Remedial Action Program
 Survey of Monitoring System
 for
 Earth Technology Corporation
 Subcontract 93S-0024-DC4
 Prime contract 30B-99785C

Piezometers:

piezometer	location coordinate *		elevation **
	northing	easting	
PZ-1	1454763.5	634900.8	643.10
PZ-2	1454746.7	634387.8	645.06
PZ-3	1454187.9	634903.3	638.97
PZ-4	1454179.4	634383.3	639.56

Monitoring Wells:

monitoring wells	location coordinate *		elevation **	
	northing	easting	ground	top/casing
MW-1	1455159.5	634890.6	647.9	647.35
MW-2	1455127.7	634460.4	647.9	647.36
3AMW-1	1454812.2	634470.4	646.0	645.40
3BMW-1	1454656.6	634411.5	645.0	644.47
3CMW-1	1454308.1	634527.7	642.3	641.76
51MW-1	1454790.3	634885.4	643.4	642.93

* - All location coordinates are based on Illinois State Plane coordinate system using control available on the Air Guard site. The coordinates shown are for referencing and indexing purposes only and not to be used as subsequent control for future surveys.

** - Elevations are based on USGS datum from control available on site. Soil boring elevations are ground at the boring location. Piezometer elevations are top of PVC cap. Elevations on monitoring wells are given on ground shots at location of the well and on top of the monitoring well casing inside the outer protective casing.

Peoria Air National Guard - Peoria, IL
 Hazardous Waste Remedial Action Program
 Survey of Monitoring System
 for
 Earth Technology Corporation
 Subcontract 93S-0024-DC4
 Prime contract 30B-99785C

Soil Borings:

soil borings	location coordinate *		elevation **
	northing	easting	
1SB-1	1454902.0	634890.5	646.2
1SB-2	1454839.7	634885.1	644.8
1SB-3	1454856.3	634810.6	646.4
1SB-4	1454865.1	634872.1	645.7
1SB-5	1454819.5	634852.6	644.5
2SB-1	1454632.0	634904.0	643.8
2SB-2	1454482.4	634900.7	642.9
2SB-3	1454345.9	634897.0	641.9
3ASB-1	1454840.2	634470.6	646.4
3BSB-1	1454745.8	634345.6	645.5
3BSB-2	1454666.6	634385.8	645.2
3BSB-3	1454586.9	634384.7	644.7
3CSB-1	1454372.9	634441.3	643.1
3CSB-2	1454332.3	634503.5	642.8
3CSB-3	1454454.0	634506.0	644.3
3CSB-4	1454413.5	634331.2	640.9

EARTH TECHNOLOGY CORP
AIR NATIONAL GUARD

70	TP [#] 1	B5 #2	ARP-3
----	-------------------	-------	-------

0-00-00	212320'
---------	---------

3 BEACON

218-39-24

537.23

Q

276-31-31

1080.83'

75 #1
45 #2

00-00-00

4

105-35-58

105-35-45 Use

75-5-75

0	-	0	0	-	0	0
---	---	---	---	---	---	---

#3 Bifetch

66-48-12

966.361

66-45-39 USE

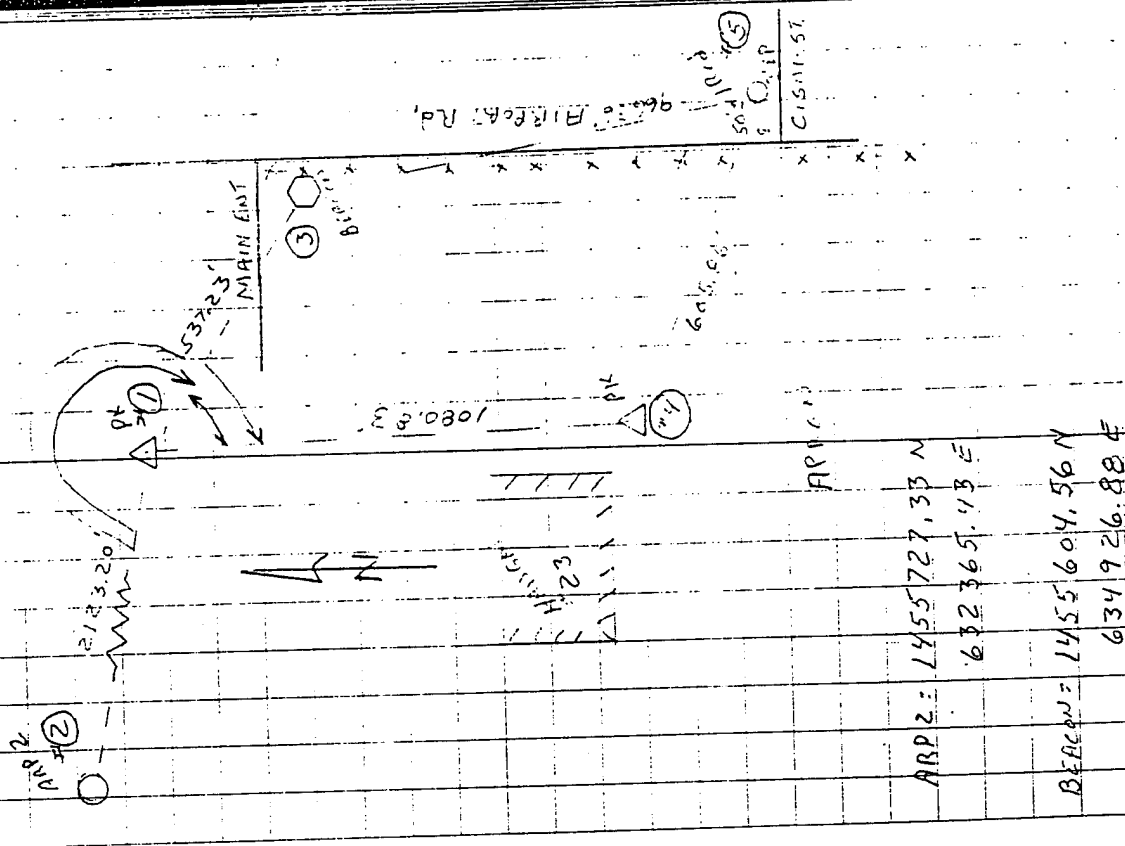
$$B_{\text{face}} = 1455604.56 \text{ N}$$

634926.88

ARP2: 1455727,33 N

632365.135

26-11-92

$$109 \overline{) 55}$$


123/56

3E
BA

12-11-92

BENDON

BEACON

AIRPORT

BENCH CIRCUIT

4.50 654.67 650.17
5.42 654.70 5.39 649.18
8.33 646.33
B.35 654.72
5.50 654.82 5.40 649.32
A.61 650.21 (650.17)

RE RUN BENCH CIRCUIT 12-11-92

4.27 654.44 650.17
5.35 654.64 5.15 649.29
8.27 646.37

TBM

PK

TP4 PK

PK

PK

TBM

TBM

PK

PK 3A

EARTH TECH. CONTROL
A.R. NAT. GUARD TRAV.

π ④ 4 B 51 PG 55

0-00-00 1080.22

105-36-01

AA 5.26

105-36-01
105-35-45 USE

π ④ ④

460.20

68-27-28"

No. Good

180-27-30"

248-27-28"

π ③ ⑤

966.45

0-00-00

180-00-10

129-47-05

129-47-05

309-47-00

π ③ ③

0-00-00

180-00-00

57-52-10

57-52-10

237-52-10

④

12.11.9

EW
DMT

109

π ⑤ ④ 605.74

0-00-00

180-00-10

66-45-50

246-45-50

③

47.59-58 0-27-32 DIFF

12-21-92

π ⑥ 6-854

0-00-00

180-00-02

68-25-27

248-26-21

⑦

60 1.23

π ③ 7 85.6

0-00-00

MW#1 264.21 53.97

EARTH TECH. TIE-INS A.R. NAT. GRD. BORINGS & WELLS

K ④ ①

② PROCEMEETER

PZ ① monitoring well

PZ ②

PZ ④

PZ ②

SB 2502

SB 2502

3N501

3B501

3B50B

3B503

452.84

783.14

648.11

97.66

495.82

508.20

28.44

128.25

169.22

245.49

95'-49"-48"

142'-32'-56"

183'-49'-10"

215'-30'-00"

111'-00'-56"

125'-11'-36"

54'-24'-46"

230'-25'-12"

199'-23'-10"

192'-52'-46"

95'-49"-48"

142'-32'-56"

183'-49'-10"

215'-30'-00"

111'-00'-56"

125'-11'-36"

54'-24'-46"

230'-25'-12"

199'-23'-10"

192'-52'-46"

452.84

783.14

648.11

97.66

495.82

508.20

28.44

128.25

169.22

245.49

K ④ ④

SB 1

SB 2

SB 3

SB 4

SB 5

K ④ ④

M ④ ①

PZ 2

77'-54'-10"

78'-04'-24"

52'-29'-42"

73'-00'-00"

64'-28'-00"

264'-24'-00"

211.49'

148.90'

175.49'

173.65'

129.35'

53.97'

12-14-92

5-W DMN

104/58

EARTH TECH.
AIR NAT. GRD.
BLEN.

BORINGS
WELLS ELEV.

PK # 4 3.38

649.75

644.37

3ASB1

3.34

646.41

3BSB1

4.3

645.45

PZ 2 GR

4.2

645.55

CAP

4.58

645.17

3BSB

4.6

645.15

3BSB3

5.1

644.65

⊙

645.22

7.27

642.48

2.74

PZ 4 GR

5.1

640.12

CAP

5.53

639.69

PZ 3 GR

5.8

639.42

CAP

6.18

639.04

2582

2.3

642.92

2502

1.88

643.34

⊙

651.11

7.3

643.81

2501

7.6

643.51

PZ 1 GR

7.91

643.20

CAP

4.94

646.17

SB1

6.33

644.78

SB2

4.69

646.42

SB3

5.43

645.68

SB4

6.62

644.49

SB5

109
59

EW
DN X

12-14-92

EARTH TERM. BORINGS & AIR NAT GRD WELLS ELEV.

651.11

7.85

5.97

645.14

WELL 1 GR

CAP

5.11

5.64

647.88

WELL 2

5.38

3.67

647.35

649.32

4.53

650.17 (650.17)

GRD

TOP CAP

1454763.475 N
634900.7500 E
1454746.718 N
634387.7783 E
1454187.899 N
634903.259 E
1454178.410 N
634383.341 E
1455159.522 N
634890.643 E

PZ 1

PZ 2

PZ 3

PZ 4

MW 1

(BORINGS)
25801
25801
25802
25802

3A5B1

3B5B1

3B5B2

3B5B3

SB1

SB2

SB3

SB4

SB5

12-14-92

EW DM T

109/60

TOP OF PROTECTIVE CASING

BEACH

TP#1 1455904.565 N

634481.219 E

TP#2 1455427.33 N

632365.43 E

TP#3 1455604.587 N

634926.833 E

TP#4 1454824.388 N

634446.980 E

TP#5 1454643.132 N

635024.965 E

TP#6 1454691.452 N

634870.884 E

TP#7 1455150.326 N

634837.464 E

17
101

26

26-12-21

BORING & WELL LOCATIONS

TP#3

TP#7

J-11

TP#1

TP#2

MW#1

MW#2

SITE 3A

23

1080.72

TP#4

105-35-45

503

2

1

SITE 3B

3B

TP#5

TP#6

444.26

682523

460.09

504

505

506

507

PZ1

25801

25801

PZ2

30581

3058

30583

SITE 3C

NOT IN

N

3C

3C

3C

3C

3C

25802

25802

PZ3

PZ4

0255

EARTH TECH
 AIR NAT. GUARD
 BORING & WELL LOCATIONS

5940-01A7

700 4 05 5

0-00-00

10. 05. 50

26. 40

88. 19. 55

126. 865

84. 31. 00

171. 455

63. 32. 00

375. 105

73. 18. 50

451. 535

66. 01. 50

495. 280

63. 42. 15

522. 545

347. 02. 20

439. 105

255. 07. 45

303. 620

291. 20. 30

656. 885

38mwl

30504

38504

38mwl

30502

30501

30502

30mwl

51mwl

MW2

125B03

4

1-20-93

RAIN 38°

20

RTN

* TAU. INFO. PG. 60-61. THIS BOOK

1455812.194 N

634470.3955 E

1454413.541 N

634331.1609 E

1454656.630 N

634411.5423 E

1454453.963 N

634506.0162 E

1454372.884 N

634441.2645 E

1454332.349 N

634503.5461 E

1454308.118 N

634527.6824 E

1454790.270 N

634885.3545 E

1455127.710 N

634460.4386 E

1454345.912 N

634897.0377 E

107/65

EW
RPT

1-20-93
RAIN 38°

EARTH TECH
AVR NAT GUARD
BORING WELLS

* WELLS ARE ON TOP OF
CASING PILE - NOT IN
FOR ELEV.
PREVIOUS ELEV. PAGE 60 THIS BORO
WERE ON TOP OF CAP
AS PER BILL NORTON OF EARTH
TECH. CORP.

ELEV.
ELEV.

HI
649.41

STA
TOM
TP 4 PK

2" steel
3 AMWL
GND.
2" steel

401 645.40
3.44 645.97
4.94 644.47
4.40 645.01
8.54 640.87

3B5B4
GND

5.08 644.33

3C5B3

6.32 643.08

3C5B1

6.58 642.83

3C5B2

7.65 641.76

2" steel
3C5MW1

7.12 642.29

9.85 639.56

2PUC
P24

4.35 645.06

2PUC
P22

3.04 646.37

3.69 650.06

7.13 642.93

2" steel
51 MW1
GND

6.63 643.43

6.96 643.10

2" PUC
P21

108
66

EW
KFT

1-20-93
38°RAIN

EARTH TECH.
AIRNAT GUARD
BORING & WELL ELEV.

25B03	650.06	814	641.92
2 nd PVC PZ3		11,09	638.97
MUJ1 Cap S.96	653.31		647.35
2 nd S.96 MUJ1		6,00	647.31
TP4 S.66	652.03		646.37
2 nd Steel MW 2		4,67	647.36
CAP		4,16	647.87



State of Illinois
A22152A

Department of Professional Regulation

The person, firm or corporation whose name appears on this certificate has complied with the provisions of the Illinois Statutes and/or rules and regulations and is hereby authorized to engage in the activity as indicated below.

EXPIRES
11/30/1994

LICENSE NO.
035-002137

LICENSED
PROFESSIONAL LAND SURVEYOR

STEVE P. ROMANOWSKI
1131 E. BROOKVIEW LN
PEORIA, IL 61615



[Signature] DIRECTOR
Issued under the authority of The State of Illinois
Department of Professional Regulation.

Appendix K: Investigation Derived Waste: Analytical Results

7/19/93

TCLP Results

Page 1

ILANG, 162nd FG, GPA, Peoria, Illinois

SITE	LOCATOR	LABSAMPLENUM	SAMPLEID	MATRIX	ANALYTE	RESULT	RDL	QUALIFIER	UNITS
GPAS1	SB2	532781	GPA-S1-SB2	WATER	1,1-Dichloroethylene	0	0	BRL	mg/l
GPAS1	SB2	532781	GPA-S1-SB2	WATER	1,2-Dichloroethane	0	0	BRL	mg/l
GPAS1	SB2	532781	GPA-S1-SB2	WATER	2-Butanone	0	0	BRL	mg/l
GPAS1	SB2	532781	GPA-S1-SB2	WATER	Benzene	0	0	BRL	mg/l
GPAS1	SB2	532781	GPA-S1-SB2	WATER	Carbon Tetrachloride	0	0	BRL	mg/l
GPAS1	SB2	532781	GPA-S1-SB2	WATER	Chlorobenzene	0	0	BRL	mg/l
GPAS1	SB2	532781	GPA-S1-SB2	WATER	Chloroform	0	0	BRL	mg/l
GPAS1	SB2	532781	GPA-S1-SB2	WATER	Tetrachloroethylene	0	0	BRL	mg/l
GPAS1	SB2	532781	GPA-S1-SB2	WATER	Trichloroethylene	0	0	BRL	mg/l
GPAS1	SB2	532781	GPA-S1-SB2	WATER	Vinyl chloride	0	0	BRL	mg/l
GPAS1	SB2	532782	GPA-S1-SB2	WATER	1,4-Dichlorobenzene	0	0	BRL	mg/l
GPAS1	SB2	532782	GPA-S1-SB2	WATER	2,4,5-Trichlorophenol	0	0	BRL	mg/l
GPAS1	SB2	532782	GPA-S1-SB2	WATER	2,4,6-Trichlorophenol	0	0	BRL	mg/l
GPAS1	SB2	532782	GPA-S1-SB2	WATER	2,4-Dinitrotoluene	0	0	BRL	mg/l
GPAS1	SB2	532782	GPA-S1-SB2	WATER	2-Methylphenol	0	0	BRL	mg/l
GPAS1	SB2	532782	GPA-S1-SB2	WATER	3-Methylphenol	0	0	BRL	mg/l
GPAS1	SB2	532782	GPA-S1-SB2	WATER	4-Methylphenol	0	0	BRL	mg/l
GPAS1	SB2	532782	GPA-S1-SB2	WATER	Cresols, Total	0	0	BRL	mg/l
GPAS1	SB2	532782	GPA-S1-SB2	WATER	Hexachlorobenzene	0	0	BRL	mg/l
GPAS1	SB2	532782	GPA-S1-SB2	WATER	Hexachlorobutadiene	0	0	BRL	mg/l
GPAS1	SB2	532782	GPA-S1-SB2	WATER	Hexachloroethane	0	0	BRL	mg/l
GPAS1	SB2	532782	GPA-S1-SB2	WATER	Nitrobenzene	0	0	BRL	mg/l
GPAS1	SB2	532782	GPA-S1-SB2	WATER	Pentachlorophenol	0	0	BRL	mg/l
GPAS1	SB2	532782	GPA-S1-SB2	WATER	Pyridine	0	0	BRL	mg/l
GPAS1	SB2	532783	GPA-S1-SB2	WATER	Arsenic	0	3	BRL	mg/l
GPAS1	SB2	532783	GPA-S1-SB2	WATER	Barium	0	50	BRL	mg/l
GPAS1	SB2	532783	GPA-S1-SB2	WATER	Cadmium	0	1	BRL	mg/l
GPAS1	SB2	532783	GPA-S1-SB2	WATER	Chromium	0	3	BRL	mg/l
GPAS1	SB2	532783	GPA-S1-SB2	WATER	Lead	0	3	BRL	mg/l
GPAS1	SB2	532783	GPA-S1-SB2	WATER	Mercury	0	0	BRL	mg/l
GPAS1	SB2	532783	GPA-S1-SB2	WATER	Selenium	0	1	BRL	mg/l

7/19/93

TCLP Results Page 2
ILANG, 182nd FG, GPA, Peoria, Illinois

SITE	LOCATOR	LABSAMPLENUM	SAMPLEID	MATRIX	ANALYTE	RESULT	RDL	QUALIFIER	UNITS
GPAS1	SB2	532783	GPA-S1-SB2	WATER	Silver	0	3	BRL	mg/l
GPAS1	SB2 RE	532787	GPA-S1-SB2RE	WATER	1,4-Dichlorobenzene	0	0	BRL	mg/l
GPAS1	SB2 RE	532787	GPA-S1-SB2RE	WATER	2,4,5-Trichlorophenol	0	0	BRL	mg/l
GPAS1	SB2 RE	532787	GPA-S1-SB2RE	WATER	2,4,6-Trichlorophenol	0	0	BRL	mg/l
GPAS1	SB2 RE	532787	GPA-S1-SB2RE	WATER	2,4-Dinitrotoluene	0	0	BRL	mg/l
GPAS1	SB2 RE	532787	GPA-S1-SB2RE	WATER	2-Methylphenol	0	0	BRL	mg/l
GPAS1	SB2 RE	532787	GPA-S1-SB2RE	WATER	3-Methylphenol	0	0	BRL	mg/l
GPAS1	SB2 RE	532787	GPA-S1-SB2RE	WATER	4-Methylphenol	0	0	BRL	mg/l
GPAS1	SB2 RE	532787	GPA-S1-SB2RE	WATER	Cresols, Total	0	0	BRL	mg/l
GPAS1	SB2 RE	532787	GPA-S1-SB2RE	WATER	Hexachlorobenzene	0	0	BRL	mg/l
GPAS1	SB2 RE	532787	GPA-S1-SB2RE	WATER	Hexachlorobutadiene	0	0	BRL	mg/l
GPAS1	SB2 RE	532787	GPA-S1-SB2RE	WATER	Hexachloroethane	0	0	BRL	mg/l
GPAS1	SB2 RE	532787	GPA-S1-SB2RE	WATER	Nitrobenzene	0	0	BRL	mg/l
GPAS1	SB2 RE	532787	GPA-S1-SB2RE	WATER	Pentachlorophenol	0	0	BRL	mg/l
GPAS1	SB2 RE	532787	GPA-S1-SB2RE	WATER	Pyridine	0	0	BRL	mg/l
GPAS1	SB3	532789	GPA-S3B-SB3	WATER	Arsenic	0	3	BRL	mg/l
GPAS1	SB3	532789	GPA-S3B-SB3	WATER	Barium	0	50	BRL	mg/l
GPAS1	SB3	532789	GPA-S3B-SB3	WATER	Cadmium	0	1	BRL	mg/l
GPAS1	SB3	532789	GPA-S3B-SB3	WATER	Chromium	0	3	BRL	mg/l
GPAS1	SB3	532789	GPA-S3B-SB3	WATER	Lead	0	3	BRL	mg/l
GPAS1	SB3	532789	GPA-S3B-SB3	WATER	Mercury	0	0	BRL	mg/l
GPAS1	SB3	532789	GPA-S3B-SB3	WATER	Selenium	0	1	BRL	mg/l
GPAS1	SB3	532789	GPA-S3B-SB3	WATER	Silver	0	3	BRL	mg/l
GPAS1	SB4	532790	GPA-S1-SB4	WATER	1,1-Dichloroethylene	0	0	BRL	mg/l
GPAS1	SB4	532790	GPA-S1-SB4	WATER	1,2-Dichloroethane	0	0	BRL	mg/l
GPAS1	SB4	532790	GPA-S1-SB4	WATER	2-Butanone	0	0	BRL	mg/l
GPAS1	SB4	532790	GPA-S1-SB4	WATER	Benzene	0	0	BRL	mg/l
GPAS1	SB4	532790	GPA-S1-SB4	WATER	Carbon Tetrachloride	0	0	BRL	mg/l
GPAS1	SB4	532790	GPA-S1-SB4	WATER	Chlorobenzene	0	0	BRL	mg/l
GPAS1	SB4	532790	GPA-S1-SB4	WATER	Chloroform	0	0	BRL	mg/l
GPAS1	SB4	532790	GPA-S1-SB4	WATER	Tetrachloroethylene	0	0	BRL	mg/l
GPAS1	SB4	532790	GPA-S1-SB4	WATER	Trichloroethylene	0	0	BRL	mg/l

ILANG, 182nd PG, GPA, Peoria, Illinois

SITE	LOCATOR	LABSAMPLENUM	SAMPLID	MATRIX	ANALYTE	RESULT	RDL	QUALIFIER	UNITS
GPAS1	SB4	532790	GPA-S1-SB4	WATER	Vinyl chloride	0	0	BRL	mg/l
GPAS1	SB4	532791	GPA-S1-SB4	WATER	1,4-Dichlorobenzene	0	0	BRL	mg/l
GPAS1	SB4	532791	GPA-S1-SB4	WATER	2,4,5-Trichlorophenol	0	0	BRL	mg/l
GPAS1	SB4	532791	GPA-S1-SB4	WATER	2,4,6-Trichlorophenol	0	0	BRL	mg/l
GPAS1	SB4	532791	GPA-S1-SB4	WATER	2,4-Dinitrotoluene	0	0	BRL	mg/l
GPAS1	SB4	532791	GPA-S1-SB4	WATER	2-Methylphenol	0	0	BRL	mg/l
GPAS1	SB4	532791	GPA-S1-SB4	WATER	3-Methylphenol	0	0	BRL	mg/l
GPAS1	SB4	532791	GPA-S1-SB4	WATER	4-Methylphenol	0	0	BRL	mg/l
GPAS1	SB4	532791	GPA-S1-SB4	WATER	Cresols, Total	0	0	BRL	mg/l
GPAS1	SB4	532791	GPA-S1-SB4	WATER	Hexachlorobenzene	0	0	BRL	mg/l
GPAS1	SB4	532791	GPA-S1-SB4	WATER	Hexachlorobutadiene	0	0	BRL	mg/l
GPAS1	SB4	532791	GPA-S1-SB4	WATER	Hexachloroethane	0	0	BRL	mg/l
GPAS1	SB4	532791	GPA-S1-SB4	WATER	Nitrobenzene	0	0	BRL	mg/l
GPAS1	SB4	532791	GPA-S1-SB4	WATER	Pentachlorophenol	0	0	BRL	mg/l
GPAS1	SB4	532791	GPA-S1-SB4	WATER	Pyridine	0	0	BRL	mg/l
GPAS1	SB4	532792	GPA-S1-SB4	WATER	Arsenic	0	3	BRL	mg/l
GPAS1	SB4	532792	GPA-S1-SB4	WATER	Barium	0	50	BRL	mg/l
GPAS1	SB4	532792	GPA-S1-SB4	WATER	Cadmium	0	1	BRL	mg/l
GPAS1	SB4	532792	GPA-S1-SB4	WATER	Chromium	0	3	BRL	mg/l
GPAS1	SB4	532792	GPA-S1-SB4	WATER	Lead	0	3	BRL	mg/l
GPAS1	SB4	532792	GPA-S1-SB4	WATER	Mercury	0	0	BRL	mg/l
GPAS1	SB4	532792	GPA-S1-SB4	WATER	Selenium	0	1	BRL	mg/l
GPAS1	SB4	532792	GPA-S1-SB4	WATER	Silver	0	3	BRL	mg/l
GPAS1	SB5	532769	GPA-S1-SB5	WATER	1,1-Dichloroethylene	0	0	BRL	mg/l
GPAS1	SB5	532769	GPA-S1-SB5	WATER	1,2-Dichloroethane	0	0	BRL	mg/l
GPAS1	SB5	532769	GPA-S1-SB5	WATER	2-Butanone	0	0	BRL	mg/l
GPAS1	SB5	532769	GPA-S1-SB5	WATER	Benzene	0	0	BRL	mg/l
GPAS1	SB5	532769	GPA-S1-SB5	WATER	Carbon Tetrachloride	0	0	BRL	mg/l
GPAS1	SB5	532769	GPA-S1-SB5	WATER	Chlorobenzene	0	0	BRL	mg/l
GPAS1	SB5	532769	GPA-S1-SB5	WATER	Chloroform	0	0		mg/l
GPAS1	SB5	532769	GPA-S1-SB5	WATER	Tetrachloroethylene	0	0	BRL	mg/l
GPAS1	SB5	532769	GPA-S1-SB5	WATER	Trichloroethylene	0	0	BRL	mg/l

7/19/93

TCLP Results Page 4

ILANG, 182nd FG, GPA, Peoria, Illinois

SITE	LOCATOR	LABSAMPLENUM	SAMPLEID	MATRIX	ANALYTE	RESULT	RDL	QUALIFIER	UNITS
GPAS1	SB5	532769	GPA-S1-SB5	WATER	Vinyl chloride	0	0	BRL	mg/l
GPAS1	SB5	532773	GPA-S1-SB5	WATER	1,4-Dichlorobenzene	0	0	BRL	mg/l
GPAS1	SB5	532773	GPA-S1-SB5	WATER	2,4,5-Trichlorophenol	0	0	BRL	mg/l
GPAS1	SB5	532773	GPA-S1-SB5	WATER	2,4,6-Trichlorophenol	0	0	BRL	mg/l
GPAS1	SB5	532773	GPA-S1-SB5	WATER	2,4-Dinitrotoluene	0	0	BRL	mg/l
GPAS1	SB5	532773	GPA-S1-SB5	WATER	2-Methylphenol	0	0	BRL	mg/l
GPAS1	SB5	532773	GPA-S1-SB5	WATER	3-Methylphenol	0	0	BRL	mg/l
GPAS1	SB5	532773	GPA-S1-SB5	WATER	4-Methylphenol	0	0	BRL	mg/l
GPAS1	SB5	532773	GPA-S1-SB5	WATER	Cresols, Total	0	0	BRL	mg/l
GPAS1	SB5	532773	GPA-S1-SB5	WATER	Hexachlorobenzene	0	0	BRL	mg/l
GPAS1	SB5	532773	GPA-S1-SB5	WATER	Hexachlorobutadiene	0	0	BRL	mg/l
GPAS1	SB5	532773	GPA-S1-SB5	WATER	Hexachloroethane	0	0	BRL	mg/l
GPAS1	SB5	532773	GPA-S1-SB5	WATER	Nitrobenzene	0	0	BRL	mg/l
GPAS1	SB5	532773	GPA-S1-SB5	WATER	Pentachlorophenol	0	0	BRL	mg/l
GPAS1	SB5	532773	GPA-S1-SB5	WATER	Pyridine	0	0	BRL	mg/l
GPAS1	SB5	532777	GPA-S1-SB5	WATER	Arsenic	0	3	BRL	mg/l
GPAS1	SB5	532777	GPA-S1-SB5	WATER	Barium	0	50	BRL	mg/l
GPAS1	SB5	532777	GPA-S1-SB5	WATER	Cadmium	0	1	BRL	mg/l
GPAS1	SB5	532777	GPA-S1-SB5	WATER	Chromium	0	3	BRL	mg/l
GPAS1	SB5	532777	GPA-S1-SB5	WATER	Lead	0	3	BRL	mg/l
GPAS1	SB5	532777	GPA-S1-SB5	WATER	Mercury	0	0	BRL	mg/l
GPAS1	SB5	532777	GPA-S1-SB5	WATER	Selenium	0	1	BRL	mg/l
GPAS1	SB5	532777	GPA-S1-SB5	WATER	Silver	0	3	BRL	mg/l
GPAS3B	SB3	532786	GPA-S3B-SB3	WATER	1,1-Dichloroethylene	0	0	BRL	mg/l
GPAS3B	SB3	532786	GPA-S3B-SB3	WATER	1,2-Dichloroethane	0	0	BRL	mg/l
GPAS3B	SB3	532786	GPA-S3B-SB3	WATER	2-Butanone	0	0	BRL	mg/l
GPAS3B	SB3	532786	GPA-S3B-SB3	WATER	Benzene	0	0	BRL	mg/l
GPAS3B	SB3	532786	GPA-S3B-SB3	WATER	Carbon Tetrachloride	0	0	BRL	mg/l
GPAS3B	SB3	532786	GPA-S3B-SB3	WATER	Chlorobenzene	0	0	BRL	mg/l
GPAS3B	SB3	532786	GPA-S3B-SB3	WATER	Chloroform	0	0	BRL	mg/l
GPAS3B	SB3	532786	GPA-S3B-SB3	WATER	Tetrachloroethylene	0	0	BRL	mg/l
GPAS3B	SB3	532786	GPA-S3B-SB3	WATER	Trichloroethylene	0	0	BRL	mg/l

7/19/93

TCLP Results Page 5

ILANG, 182nd PG, GPA, Peoria, Illinois

SITE	LOCATOR	LABSAMPLENUM	SAMPLEID	MATRIX	ANALYTE	RESULT	RDL	QUALIFIER	UNITS
GPAS1B	SB3	532786	GPA-S1B-SB3	WATER	Vinyl chloride	0	0	BRL	mg/l



Earth Technology Corporation

673 Emory Valley Road
Oak Ridge, TN 38401

Phone (309) 692-4422
Lab Fax (309) 692-5232

Phone (309) 692-4422

An IEPA Contract Laboratory

EARTH TECHNOLOGY CORPORATION

673 EMORY VALLEY ROAD
OAK RIDGE, TN 38401

J: MS. JEAN MCKEE

REPORT DATE: 02-04-93
DATE RECEIVED: 01-19-93
PROJECT NUMBER: 592-5939

CLIENT PROJECT NAME: PEORIA ANG

ESE SAMPLE
SAMPLE DATE

10749*1 10749*2
01/19/93 01/19/93

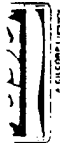
DESCRIPTION

UNITS GPA-DECON GPA-PURGE METHOD DATE ANALYST
WATER WATER NO. ANALYZED

CADMIUM	MG/L	< 0.005	< 0.005	200.7	01-22-93	NMM
CHROMIUM	MG/L	0.029	0.029	200.7	01-22-93	NMM
COPPER	MG/L	0.015	0.020	200.7	01-22-93	NMM
LEAD	MG/L	< 0.050	< 0.050	200.7	01-22-93	NMM
MERCURY	MG/L	< 0.0002	< 0.0002	245.2	01-22-93	LLS
NICKEL	MG/L	< 0.020	< 0.020	200.7	01-22-93	NMM
ZINC	MG/L	0.046	0.108	200.7	01-22-93	NMM
BOD	MG/L	1,000	16	405.1	01-22-93	FTJ
TSS (RESIDUE, SUSP.)	MG/L	131	868	160.2	01-22-93	AMH
PH	UNITS	8.78	7.68	150.1	01-22-93	FTJ
NITROGEN, AMMONIA	MG/L	0.16	0.19	350.3	01-25-93	CJF

Report Approved by:

Janel A. Woodin
Janel A. Woodin
Project Manager



Engineering, Inc.

Phone (309) 692-4422

Lab Fax (309) 692-5232

An ILPA Contract Laboratory

EARTH TECHNOLOGY CORPORATION

673 EMORY VALLEY ROAD
OAK RIDGE, TN 38401

N: MS. JEAN MCKEE

REPORT DATE: 02-04-93
DATE RECEIVED: 01-19-93
PROJECT NUMBER: 592-5939

CLIENT PROJECT NAME: PEORIA ANG

ESE SAMPLE
SAMPLE DATE

10749*1 10749*2
01/19/93 01/19/93

DESCRIPTION

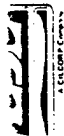
UNITS GPA-DECON GPA-PURGE METHOD DATE ANALYST
WATER WATER NO. ANALYZED

VOLATILE ORGANIC COMPOUNDS

CHLOROMETHANE	UG/L	< 10	< 10	624	01-20-93	ELP
BROMOMETHANE	UG/L	< 10	< 10	624	01-20-93	ELP
VINYL CHLORIDE	UG/L	< 10	< 10	624	01-20-93	ELP
CHLOROETHANE	UG/L	< 10	< 10	624	01-20-93	ELP
ACROLEIN	UG/L	< 50	< 50	624	01-20-93	ELP
ACRYLONITRILE	UG/L	< 50	< 50	624	01-20-93	ELP
2-CHLOROETHYL VINYL ETHER	UG/L	< 50	< 50	624	01-20-93	ELP
DICHLORODIFLUOROMETHANE	UG/L	< 10	< 10	624	01-20-93	ELP
TRICHLOROFLUOROMETHANE	UG/L	< 10	< 10	624	01-20-93	ELP
METHYLENE CHLORIDE	UG/L	< 5	< 5	624	01-20-93	ELP
1,1-DICHLOROETHENE	UG/L	< 5	< 5	624	01-20-93	ELP
1,1-DICHLOROETHANE	UG/L	< 5	< 5	624	01-20-93	ELP
TRANS-1,2-DICHLOROETHENE	UG/L	< 5	< 5	624	01-20-93	ELP
CHLOROFORM	UG/L	< 5	< 5	624	01-20-93	ELP
1,2-DICHLOROETHANE	UG/L	< 5	< 5	624	01-20-93	ELP
1,1,1-TRICHLOROETHANE	UG/L	< 5	< 5	624	01-20-93	ELP
CARBON TETRACHLORIDE	UG/L	< 5	< 5	624	01-20-93	ELP
BROMODICHLOROMETHANE	UG/L	< 5	< 5	624	01-20-93	ELP
1,2-DICHLOROPROPANE	UG/L	< 5	< 5	624	01-20-93	ELP

Report Approved by:

Janet A. Woodin
Janet A. Woodin
Project Manager



Earth Technology Corporation
Engineering, Inc.

8001 South Industrial Avenue
Phone (309) 692-4422

Peoria, Illinois 61611
Lab Fax (309) 692-5232

An IEPA Contract Laboratory

EARTH TECHNOLOGY CORPORATION
673 EMORY VALLEY ROAD
OAK RIDGE, TN 38401
: MS. JEAN MCKEE

REPORT DATE: 02-04-93
DATE RECEIVED: 01-19-93
PROJECT NUMBER: 592-5939

CLIENT PROJECT NAME: PEORIA ANG

ESE SAMPLE 10749*1
SAMPLE DATE 01/19/93

DESCRIPTION UNITS GPA-DECON WATER GPA-PURGE WATER METHOD NO. DATE ANALYZED ANALYST

VOLATILE ORGANIC COMPOUNDS (Cont'd)

CIS-1,3-DICHLOROPROPENE	UG/L	< 5	< 5	624	01-20-93	ELP
TRICHLOROETHENE	UG/L	< 5	< 5	624	01-20-93	ELP
DIBROMOCHLOROMETHANE	UG/L	< 5	< 5	624	01-20-93	ELP
1,1,2-TRICHLOROETHANE	UG/L	< 5	< 5	624	01-20-93	ELP
BENZENE	UG/L	< 5	< 5	624	01-20-93	ELP
TRANS-1,3-DICHLOROPROPENE	UG/L	< 5	< 5	624	01-20-93	ELP
BROMOFORM	UG/L	< 5	< 5	624	01-20-93	ELP
TETRACHLOROETHENE	UG/L	< 5	< 5	624	01-20-93	ELP
1,1,2,2-TETRACHLOROETHANE	UG/L	< 5	< 5	624	01-20-93	ELP
TOLUENE	UG/L	< 5	< 5	624	01-20-93	ELP
CHLOROBENZENE	UG/L	< 5	< 5	624	01-20-93	ELP
ETHYLBENZENE	UG/L	< 5	< 5	624	01-20-93	ELP
CIS-1,2-DICHLOROETHENE	UG/L	< 5	20	624	01-20-93	ELP

Report Approved by:

Janel A. Woodin
Janel A. Woodin
Project Manager



Environmental
Science &
Engineering, Inc.

8901 North Industrial Road -- Peoria, Illinois 61615
Telephone: (309) 692-4422 -- Fax: (309) 692-5232

Project Number: 592-5939
Due Date: 1-28-93
COC #: _____

Chain of Custody Record

Nº 01923

Company: The Earth Technology Corp
Address: Oakridge Tr
Phone #: (615) 461-7441 Fax #: ()
P.O. #: _____
Client Contact: Dean McKee
Project ID / Location: Phase AMG

Sample Type: Container Type:

1. Water P - Plastic
2. Soil G - Glass
3. Sludge V - VOC
4. Oil
5. Tissue
Other: _____

Preservative:

1. None 3. HNO3
2. H2SO4 4. NaOH

Analyses

PH
TSS
NH3-N
HS
PP Volatile Organics
Metals (Cd, Cr, Cu, Pb)
Pet per 500

Comments

Use Analytical
methods, require
by Peer 12
Sanitation Dis

Sample I.D. (10 Characters ONLY)	Sample Type	Size	Container Type	No.	Date	Time	Preservative	Lab I.D.	Comments
SPA-DECON	H2O	500ml	Plastic	1	1-19-93	1500	None	10749-1	
SPA-DECON	"	"	"	"	"	"	H2SO4		
SPA-DECON	"	"	"	"	"	"	HNO3		
SPA-DECON	H2O	40ml	Glass	2	1-19-93	1500	None		
SPA-Purge	H2O	500ml	Plastic	1	1-19-93	1500	None		
SPA-PURGE	"	"	"	"	"	"	H2SO4	10749-2	
SPA-PURGE	"	"	"	"	"	"	HNO3		
SPA-PURGE	H2O	40ml	Glass	2	1-19-93	1500	None		

Relinquished By: <u>B. J. McKee</u>	Date: <u>1-19-93</u> Time: <u>17:00</u>	Received By: <u>James Conroy</u>	Date: <u>--</u> Time: <u>--</u>	TURNAROUND TIME: <input type="checkbox"/> RUSH: <u> </u> day <input checked="" type="checkbox"/> ROUTINE: <u>7</u> day	FOR LAB USE ONLY Samples Received Chilled <input type="checkbox"/> Yes <input type="checkbox"/> No
Relinquished By:	Date: <u>--</u> Time: <u>--</u>	Received For Lab By:	Date: <u>1-19-93</u> Time: <u>4:45 pm</u>		

SPECIAL INSTRUCTIONS:

Copies: White - Client Canary - Lab Receiving Pink - Lab File Gold - Retained by Sampler

EARTH TECHNOLOGY CORPORATION
 583 EMORY VALLEY ROAD
 OAK RIDGE, TN 37830
 MS. JEAN MCKEE

PAGE NUMBER: 1
 REPORT DATE: 05-07-93
 DATE RECEIVED: 04-19-93
 PROJECT NUMBER: 592-5939

CLIENT PROJECT NAME: 182ND TASG/PEORIA, IL
 CLIENT PROJECT NUMBER: 911655-03

ESE SAMPLE 12031*1
 SAMPLE DATE 04/19/93

DESCRIPTION	UNITS	GPA PURGE WATER	METHOD NO.	DATE ANALYZED	ANALYST
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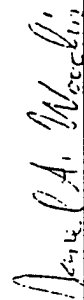
METALS

CADMIUM	MG/L	< 0.005	200.7	04-22-93	ELZ
CHROMIUM	MG/L	< 0.010	200.7	04-22-93	ELZ
COPPER	MG/L	0.027	200.7	04-22-93	ELZ
LEAD	MG/L	< 0.005	239.2	04-22-93	GRS
NICKEL	MG/L	< 0.020	200.7	04-22-93	ELZ
ZINC	MG/L	0.309	200.7	04-22-93	ELZ
MERCURY	MG/L	< 0.0002	245.2	04-22-93	LLS

OTHER PARAMETERS

PH	UNITS	7.88	150.1	04-19-93	FTJ
BOD	MG/L	1,350	405.1	05-01-93	FTJ
TSS (RESIDUE, SUSP.)	MG/L	43	160.2	04-21-93	FTJ
NITROGEN, AMMONIA	MG/L	< 0.10	350.3	04-22-93	CJF

Report Approved by:


 Janel A. Woodin
 Project Manager



Science &
Engineering, Inc.

8901 North Industrial Road
Peoria, IL 61615-1589
Phone (309) 692-4422 Lab Fax (309) 692-5232

An IEPA Contract Laboratory

EARTH TECHNOLOGY CORPORATION
673 EMORY VALLEY ROAD
OAK RIDGE, TN 38401
N: MS. JEAN MCKEE

PAGE NUMBER: 2
REPORT DATE: 05-07-93
DATE RECEIVED: 04-19-93
PROJECT NUMBER: 592-5939

CLIENT PROJECT NAME: 182ND TASG/PEORIA, IL
CLIENT PROJECT NUMBER: 911655-03

ESE SAMPLE 12031*1
SAMPLE DATE 04/19/93

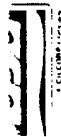
DESCRIPTION	UNITS	GPA PURGE WATER	METHOD NO.	DATE ANALYZED	ANALYST
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VOLATILE ORGANIC COMPOUNDS

CHLOROMETHANE	UG/L	< 10	624	04-23-93	NEB
BROMOMETHANE	UG/L	< 10	624	04-23-93	NEB
VINYL CHLORIDE	UG/L	< 10	624	04-23-93	NEB
CHLOROETHANE	UG/L	< 10	624	04-23-93	NEB
ACROLEIN	UG/L	< 50	624	04-23-93	NEB
ACRYLONITRILE	UG/L	< 50	624	04-23-93	NEB
2-CHLOROETHYL VINYL ETHER	UG/L	< 50	624	04-23-93	NEB
DICHLORODIFLUOROMETHANE	UG/L	< 10	624	04-23-93	NEB
TRICHLOROFUOROMETHANE	UG/L	< 10	624	04-23-93	NEB
METHYLENE CHLORIDE	UG/L	< 5	624	04-23-93	NEB
1,1-DICHLOROETHENE	UG/L	< 5	624	04-23-93	NEB
1,1-DICHLOROETHANE	UG/L	< 5	624	04-23-93	NEB
TRANS-1,2-DICHLOROETHENE	UG/L	< 5	624	04-23-93	NEB
CHLOROFORM	UG/L	< 5	624	04-23-93	NEB
1,2-DICHLOROETHANE	UG/L	< 5	624	04-23-93	NEB
1,1,1-TRICHLOROETHANE	UG/L	< 5	624	04-23-93	NEB
CARBON TETRACHLORIDE	UG/L	< 5	624	04-23-93	NEB
BROMODICHLOROMETHANE	UG/L	< 5	624	04-23-93	NEB
1,2-DICHLOROPROPANE	UG/L	< 5	624	04-23-93	NEB

Report Approved by:

Janet A. Woodin
Janet A. Woodin
Project Manager



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673 EMORY VALLEY ROAD
OAK RIDGE, TN 38401
: MS. JEAN MCKEE

PAGE NUMBER: 3
REPORT DATE: 05-07-93
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PROJECT NUMBER: 592-5939

CLIENT PROJECT NAME: 182ND TASG/PEORIA, IL
CLIENT PROJECT NUMBER: 911655-03

ESE SAMPLE 12031*1
SAMPLE DATE 04/19/93

DESCRIPTION	UNITS	GPA	PURGE	METHOD NO.	DATE ANALYZED	ANALYST
VOLATILE ORGANIC COMPOUNDS (Cont'd)						
CIS-1,3-DICHLOROPROPENE	UG/L	< 5		624	04-23-93	NEB
TRICHLOROETHENE	UG/L	< 5		624	04-23-93	NEB
DIBROMOCHLOROMETHANE	UG/L	< 5		624	04-23-93	NEB
1,1,2-TRICHLOROETHANE	UG/L	< 5		624	04-23-93	NEB
BENZENE	UG/L	< 5		624	04-23-93	NEB
TRANS-1,3-DICHLOROPROPENE	UG/L	< 5		624	04-23-93	NEB
BROMOFORM	UG/L	< 5		624	04-23-93	NEB
TETRACHLOROETHENE	UG/L	< 5		624	04-23-93	NEB
1,1,2,2-TETRACHLOROETHANE	UG/L	< 5		624	04-23-93	NEB
TOLUENE	UG/L	< 5		624	04-23-93	NEB
CHLOROBENZENE	UG/L	< 5		624	04-23-93	NEB
ETHYLBENZENE	UG/L	< 5		624	04-23-93	NEB
CIS-1,2-DICHLOROETHENE	UG/L	< 5		624	04-23-93	NEB

Report Approved by:

Janet A. Woodin
Janet A. Woodin
Project Manager



Environmental
Science &
Engineering, Inc.

8901 North Industrial Road -- Peoria, Illinois 61615
Telephone: (309) 692-4422 -- Fax: (309) 692-5232

FOR LAB USE ONLY
Project Number: 302
Due Date: 4-14-93

Chain of Custody Record

Nº 3175

Company: Foris Technology Corp
Address: 683 Emory Valley Rd
Oak Ridge Tn 37830
Phone #: (615) 483-9404 Fax #: (615) 481-3531
Contact: John McKee
Project # / Location: 192nd TASC - Peoria, ILL

Sample Type: Container Type:

- 1. Water P - Plastic
- 2. Soil G - Glass
- 3. Sludge V - VOC
- 4. Oil
- 5. Tissue
- Other:

Preservative:

- 1. None 3. HNO3
- 2. H2SO4 4. NaOH

Analyses

VOC (NPDES)
PH
TSS
Metals (NPDES)
Mercury
BTEX

Sample ID Characteristics ONLY	Sample		Container		Sampling		Preservative	Lab I.D.	Comments
	Type	Size	Type	No.	Date	Time			
Purge	H ₂ O	40ml	Glass	4	4/19/93	1020	Na	12031-1	
Purge	H ₂ O	500ml	Pl.	1	4/19/93	1020	Na		7
Purge	H ₂ O	500ml	Pl.	1	4/19/93	1020	Na		7
Purge	H ₂ O	125ml	Pl.	1	4/19/93	1020	Na		7
Purge	H ₂ O	500	Plastic	1	4/19/93	1020	(HNO ₃)		7

Inquired By: J. Swagerl Date: 4-19-93 Received By: James Conner

Inquired By: J. Swagerl Date: 11:30 Received For Lab By: James Conner

TURNAROUND TIME: ☐ RUSH: day ☐ turnaround ☐ ROUTINE

FOR LAB USE ONLY
Samples Received Chilled ☐ Yes ☒ No

CIAL INSTRUCTIONS:

Copies White - Client Canopy - Lab Receiving Pink - Lab File Goldenrod - Retained by Sampler